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Agricultural Economic Report

The Hired Farm Working Force of 1981



THE HIRED FARM WORKING FORCE OF 1981, by Susan L. Pollack and William R. Jackson Jr., Economic Development Division, Economic Research Service, U.S. Department of Agriculture. Agricultural Economic Report No. 507.

ABSTRACT

In 1981, approximately 2.5 million people 14 years of age and over did farmwork for cash wages and salary. The racial/ethnic composition of the work force was 73 percent white, 13 percent Hispanic, and 14 percent black and other. Fifty-five percent of the farmworkers were under 25 years old and 77 percent were male. At the time of the survey, more farmworkers resided in the South (40 percent) and North Central (28 percent) regions than in the Northeast and West. About four of five workers had nonfarm residences. The average annual earnings in 1981 were \$4,299, of which \$2,659 came from an average of 98 days of farmwork. Migrant workers accounted for only about 5 percent of all hired farmworkers.

Keywords: Hired farmworker, age, sex, racial/ethnic group, migrant, earnings, employment, education, Census Region, Standard Federal Region.

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HIGHLIGHTS

In 1981, approximately 2.5 million persons 14 years of age and over did hired farmwork, according to the recent Hired Farm Working Force Survey. Most of the workers were less than 25 years old (55 percent), white (73 percent), and male (77 percent). Hispanics made up 13 percent of the work force and blacks and others made up 14 percent. The median level of education for hired farmworkers was 11 years. Eighty-four percent lived at nonfarm residences.

All workers averaged 98 days of farmwork. Nearly threequarters of farmworkers worked fewer than 150 days at farmwork. Regular and year-round workers made up only one-quarter of the work force but accounted for 73 percent of total days worked.

In 1981, hired farmworkers earned an average of \$4,299 from both farmwork and nonfarmwork. Only \$2,659 of this average was earned from farmwork.

Forty percent of the farmworkers were in the South at the time of the December 1981 survey. Twenty-eight percent of the workers were in the North-Central Region, followed by 24 percent in the West. Only 8 percent of the farmworkers were in the Northeast.

Only about 5 percent of the hired farmworkers (115,000) were migrant laborers in 1981, a decline from the percentage in recent years. Seventy-five percent of the migrants were white, 17 percent were Hispanic, and 8 percent were black and other. Over half of all migrants (53 percent) worked fewer than 75 days at farmwork. Migrants earned an annual average of \$3,995, and farmwork accounted for \$2,728 of that amount.

Half of the farmworkers were not in the labor force for most of the year. Those who were primarily hired farmworkers made up 28 percent of the hired farm working force. Those who were primarily nonfarmworkers made up 17 percent and had the highest average annual earnings (\$8,341) in 1981. Hispanics earned twice as much from farmwork (\$4,319) as did blacks and others (\$2,668) and whites (\$2,359).

Over the past 10 years, the number of farmworkers between the ages of 18 and 44 increased, and the number of younger workers 14 through 17 decreased. The number of days spent at farmwork increased from an average of 198 million worker-days in 1969-71 to 257 million in 1979-81.

The Hired Farm Working Force of 1981

Susan L. Pollack William R. Jackson Jr.

INTRODUCTION

About 2.5 million hired farmworkers earned cash wages or salary in 1981. According to the 1981 Hired Farm Working Force Survey, this was not significantly different from estimates in any year since 1968, when there were 2.9 million workers. Before 1968, there had been a long-term downward trend (table 1).

Through the 1960's, the migrant work force experienced a steady decline (table 2). Factors contributing to the decreased use of migrant labor included adoption of new technologies, changes in farm size, and new farm and farmworker programs. Since 1970, the number of migrant workers stabilized at around 200,000 and remained at that level until 1981. However, in 1981 the number of migrant farmworkers decreased by 47 percent to 115,000 from 217,000 only two years before.

Reasons for the decline in the number of migrants from 1979 to 1981 are not clear. One possible explanation is that the demand for migrant labor in agriculture has declined because of changing production levels and agricultural practices. However, an examination of various production data, including acres planted, acres harvested, value of production, and hours of labor required for various commodities in different regions did not provide conclusive evidence to support decreased labor demand. Also, information gathered from farm labor researchers in several States where migrants worked, as well as administrative data from Federal agencies servicing migrant farmworkers, did not generally support the idea of a diminishing need for migrant workers.

Another explanation for the decrease may be that farm operators are increasingly substituting illegal aliens for domestic farmworkers. The Hired Farm Working Force Survey probably enumerates few illegal workers, either because they have returned home before the time of the survey or because they avoid survey enumerators due to their illegal status. Therefore, an increased substitution of illegal workers for domestic laborers would appear as a decrease in the number of migrant workers in the survey data. Data on the number of illegal workers in agriculture are not available to allow a further examination of this premise.

Table 1--Hired farmworkers, by duration of farmwork, 1950-81

	:	: Da	Days of hired farmwork during the year $\underline{1}/$					
Year	: Total :	Fewer tha	n : 25 to 74	: 75 to 149		250 or more		
	:		Thousands					
1950	: 4,342							
1951	: 3,274	1,118	925	379	301	551		
1952	: 2,980	1,008	928	324	296	424		
1953 2/	:	•						
1954	: 3,009	1,101	756	318	364	470		
1955 2/	:							
1956	: 3,575	1,497	920	410	305	443		
1957	: 3,962	1,762	1,044	501	256	399		
1958	: 4,212	1,893						
1959	: 3,577	1,412	863	502	348	452		
	:	•						
1960	: 3,693	1,531	868	465	39 0	438		
1961	: 3,488	1,600	849	354	281	404		
1962	: 3,622	1,555	933	408	284	442		
1963	: 3,597	1,735	771	392	309	390		
1964	: 3,370	1,369	924	413	326	338		
	:							
1965	: 3,128	1,264	807	397	282	379		
1966	: 2,763	1,130	717	339	211	367		
1967	: 3,078	1,338	738	327	277	397		
1968	: 2,919	1,299	731	308	256	324		
1969	: 2,571	1,106	718	258	189	301		
	:							
1970	: 2,488	1,093	623	293	172	306		
1971	: 2,550	1,191	648	213	213	285		
1972	: 2,809	1,130	663	361	288	367		
1973	: 2,671	1,085	567	351	247	421		
1974	: 2,737	1,169	619	308	274	367		
	:	1 100	556	210	228	355		
1975	: 2,638	1,180	556	319				
1976	: 2,767	1,145	652	347	290 295	333 391		
1977	: 2,730	1,056	667	322	293	391		
1978 <u>2</u> /	:	000	(70	222	335	423		
1979	: 2,652	898	672	323	333	423		
1000 01								
1980 <u>2</u> /	: 2 402	060	538	310	281	394		
1981	: 2,492	969	338	210	201	J74		
	:							

^{-- =} not available.

^{1/} Data are rounded to nearest thousand and may not add to total. 2/ No survey conducted.

Table 2--Migrant farmworkers, by duration of farmwork, 1960-81

	:		: Days	of farmwork	during the yea	r <u>1</u> /
Year	: :	Total	Fewer than 25	: : 25 to 74 :	: : 75 to 149 :	150 and over
	:			Thousands		
	i			Inousands		
1960	:	409	92	122	84	111
1961	:	395	99	131	80	85
1962	:	380	92	133	83	73
1963	:	386	108	89	111	73 78
1964	:	386	114	102	88	82
1065	:					
1965 1966	:	466	165	114	92	94
1966	:	351	76	114	73	87
1968	:	276	81	81	56	57
1969	:	279	103	85	39	52
1909	:	257	85	84	46	41
1970	:	196	61	59	21	
1971	÷	172	55	57	31	45
1972	÷	184	46		35	24
1973	:	203	57	55 57	35	48
1974	:	209	68	63	37	52
2,7,7	:	20)	00	03	35	43
1975	:	188	45	74	21	48
1976	:	213	66	60	53	34
1977	:	191	39	73	35	44
1978 <u>2</u> /	' :				33	77
1979	:	217	56	80	33	48
	:					
1980 <u>2</u> /	' :					
1981	:	115	24	37	12	43
	:		1			
	:					

 $[\]underline{1}/$ Data are rounded to nearest thousand and may not add to total. $\underline{2}/$ No survey conducted.

Finally, because the migrant data are derived from a survey, there is the possibility of an estimation error or an increased nonsampling error associated with survey procedures (see appendix II). Additional evidence from the 1983 Hired Farm Working Force Survey is required to evaluate more closely the observed decrease in numbers of migrant farmworkers.

This report presents data on the demographic, social, and economic characteristics of persons 14 years of age and over who

did hired farmwork for at least 1 day during 1981. The report focuses on the characteristics of racial/ethnic, regional, and migratory groups of farmworkers. It also summarizes some of the more important changes and trends over the past decade in the size, composition, and employment patterns of hired farmworkers.

Data in this report are from the Hired Farm Working Force Household Survey conducted for the USDA's Economic Research Service by the Bureau of the Census, U.S. Department of Commerce. The survey sample of households includes each State and the District of Columbia, but excludes Puerto Rico and other U.S. territories and possessions. In 1981, approximately 58,000 households were interviewed; 1,555 contained persons who did hired farmwork in 1981. Information obtained from this sample of households was expanded to provide estimates of the total hired farm working force population.

The 1981 hired farm working force estimates are based on weights from the 1980 Census of Population. Estimates for 1972 to 1979 were based on weights from the 1970 Census of Population. The switchover from 1970 census weights to 1980 weights produced an "artifical bump" (slightly higher estimates) in the data series; however, the differences in the 1981 estimates based on 1970 and 1980 weights are not significant. For example, using the 1970 census weights, the 1981 total hired farmwork and migrant population estimates are 2,423,000 and 112,000, respectively. The estimates based on the 1980 census weights are 2,492,000 hired farmworkers and 115,000 migrants. Additional comparisons are presented in appendix table 17.

The Current Population Survey (CPS) is a probability sample survey, and standard errors can be derived for the estimates. Statements of comparison appearing in the text but not necessarily in the tables or figures are based on data significant at the 95-percent confidence level (two standard errors) or higher unless otherwise indicated. Additional information on the source and reliability of the survey estimates is provided in the appendix.

HIRED FARMWORKER TRAITS IN 1981 In 1981, most hired farmworkers were white, resided in the South and North Central Regions, and did not live on farms. Hired farmworker characteristics were as follows:

--73 percent were white, 13 percent were Hispanic, and 14 percent were black and other.

Data for earlier years are available in The Hired Farm Working Force of 1979, AER-473, Econ. Res. Serv., U.S. Dept. Agr., Aug. 1981, and previous issues.

² Since 1977, the Hired Farm Working Force Survey has been conducted biennially in December as a supplement to the Current Population Survey.

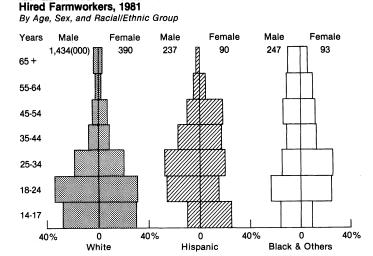
- --40 percent who were 25 years of age and over did not continue schooling past the eighth grade.
- -- 5 percent were migrants.
- -- The median age was 23.9 years.
- --84 percent did not live on farms at the time of the survey.
- --40 percent resided in the South, and 28 percent resided in the North-Central Region.

Age and Sex

Fifty-five percent of all hired farmworkers were under the age of 25, and 77 percent were male. Twenty percent of the workers were 35 to 64 years old, and another 20 percent were between 25 and 34 years old.

White farmworkers were generally younger than minority workers. The median age for whites was 22.6 years, compared with 31.7 years for blacks and others and 29.9 years for Hispanics. Sixty-one percent of all whites were under 25 years old (fig. 1). Most minority farmworkers, on the other hand, were 25 years old and over. Male and female workers were about the same age within each racial/ethnic group. The large proportion of minority farmworkers in the higher age groups suggests these

Figure 1



workers have a strong attachment to farmwork. By contrast, most whites appear to use farmwork as a starting job or for supplemental income, and find nonfarm alternatives later.

Household Status and Family Size

Farmworkers of all racial/ethnic groups were more likely to be household members than heads of households. However, heads of households were more likely to be employed for more days during the year than were other members of a household. Heads of households made up 67 percent of all farmworkers employed for 150 days or more during the year. This proportion was approximately the same for whites, Hispanics, and blacks and others. Only one third of the workers who worked fewer than 150 days were household heads.

The common perception that farmworkers are members of large families is not supported by the 1981 data. Almost half of the farmworkers' families had three or fewer immediate members (table 3). Minority farmworkers' families were more likely to be larger than were white families; 29 percent of the Hispanic farmworkers and 28 percent of blacks and others came from families with at least six people. Only 13 percent of whites came from families of this size.

Families headed by a farmworker were smaller than those headed by a nonfarmworker. Sixty-one percent of the families headed by a farmworker had three or fewer members, compared with only 30 percent of the families headed by a nonfarmworker.

Large farmworker families had higher income levels more often than did small families. Of the farmworker families with incomes of at least \$15,000, 42 percent had five or more members, compared with 3 percent with one member and 11 percent with two members. Larger families had higher incomes, probably due to higher paying nonfarm jobs of family heads supplemented by income from other family members doing farmwork. Thus, these families were less dependent on farm earnings for their major source of income. Conversely, smaller families had lower incomes, probably because of greater dependence on farm earnings for their major source of income.

Education

In 1981, hired farmworkers had a median education of 11 years. Forty percent of the workers had completed at least high school, compared with 29 percent who had completed less than 9 years (table 4). The large number of students doing farmwork during their school breaks contributed to the proportion of workers completing 9 or more years of school. About half of the students had completed from 9 to 11 years of school.

The education levels, however, varied by racial/ethnic groups. Hispanic farmworkers had the lowest education level with a median of 7.1 years, while blacks and others had a median of 9.6 years. White farmworkers, on the other hand, had a median

³ Families are defined to include only those members of a household who are related to the head of household.

Table 3--Farmworker families, by selected characteristics and size of family, 1981

Selected characteristics	Farmworker	Percentage distribution of families, by number of people in family									У	
Characteristics	: 'amilies 1/:	1	:	2	:	3	:	4	:	5	:	6 or more
	Thousands					<u>P</u>	rcer	<u>ıt</u>				
Headed by farmworkers	: : 1,018	22		22		17		18		10		11
Headed by	: :											
nonfarmworkers	: 1,020	4		8		18		26		23		21
Racial/ethnic groups:	: :											
White	: 1,624	13		15		19		24		16		13
Black and other	234	23		17		12		8		12		28
Hispanic	: 181	5		14		14		17		21		29
Migratory status:	:											
Migrants	92	18		10		12		17		24		18
Nonmigrants	: 1,947	13		15		18		22		16		16
Family income:	: :											
Less than \$5,000	326	35		18		18		13		7		9
\$5,000 - 7,499	215	24		13		18		16		10		18
\$7,500 - 9,999	: 199	15		18		23		18		16		10
\$10,000 - 14,999	366	11		19		16		23		15		17
\$15,000 - 24,999	: 481	6		14		15		24		22		19
	374	0		7		18		31		23		20
Families for which	:											
income data are not	•											
available	77	9		18		25		25		12		13
:	•											
All farmworker												
families $\underline{2}/$	2,039	13		15		18		22		16		16

 $[\]underline{1}/$ Includes only those members related to the head of household. $\underline{2}/$ Numbers and percentages may not add to totals due to rounding.

of 11.7 years of schooling. Only 14 percent of Hispanics and 25 percent of blacks and others completed 12 years or more of schooling.

Forty-five percent of the farmworkers 25 years of age and over were high school graduates. However, about the same amount (40 percent) had completed less than ninth grade.

Table 4--Years of school completed by hired farmworkers, by racial/ethnic groups, 1981 1/

Education	: : Unit :	Whites	: Hispanics	Blacks and others	: Total
Number of workers	: Thousands	1,824	328	340	2,492
Years of school-	:	: :			
ing completed:	:	:			_
0 - 4	: Percent	: 2	29	16	7
5 - 8	: do.	: 18	41	29	22
9 - 11	: do.	: 34	16	30	31
12	: do.	: 29	10	19	26
13 or more	: do.	: 17 •	4	6	14
Total	. do.	: 100	100	100	100
Median	: Years	11.7	7.1	9.6	11.0
Number of workers	:	: :			
25 years and	:	:			
older	: Thousands	: 709	206	212	1,126
Years of school-	:	: :			
ing completed:	:	:			
0 - 4	: Percent	: 4	37	25	14
5 - 8	: do.	: 19	44	34	26
9 - 11	: do.	: 16	6	19	15
12	: do.	: 37	9	13	27
13 or more	: do.	: 24	4	9	18
Total	: : do.	: 100	100	100	100
Median	: Years	: : 12.3	6.2	7.9	11.0

^{1/} Numbers and percentages may not add to totals due to rounding.

EMPLOYMENT AND EARNINGS

The average annual earnings of farmworkers in 1981 for both farmwork and nonfarmwork was \$4,299. Farmwork earnings are among the lowest of all occupations in the United States, although there are significant differences among farmworker groups. In 1981, the average annual earnings for all U.S. nonagricultural private sector production workers was \$13,270, more than three times the earnings of farmworkers.

⁴ Based on average weekly earnings, <u>Employment and Earnings</u>, U.S. Dept. Labor, Bureau of Labor Statistics, January 1983.

Hispanic farmworkers earned \$5,340, the highest annual farm and nonfarm earnings of all racial/ethnic groups, followed by whites who earned \$4,288, and blacks and others who earned \$3,358. While farmwork accounted for about 80 percent of the earnings of Hispanic and black and other farmworkers, it accounted for only about one-half the earnings of whites. Farmworker earnings of Hispanics were \$4,319, almost twice the farmwork earnings of blacks and others, \$2,668, and whites, \$2,359. Males earned almost twice as much as females from farmwork and nonfarmwork, \$4,829 versus \$2,526; heads of house-holds earned more than 2.5 times as much as other household members, \$6,876 versus \$2,434.

Days Worked

Farmworkers worked an average of 98 days at farmwork in 1981. Those who did only hired farmwork averaged about 129 days, and those who did both farmwork and nonfarmwork averaged 53 days of farmwork and 125 days of nonfarmwork. Earnings by days worked were as follows:

- --Casual workers, who worked fewer than 25 days at farm-work, made up 39 percent of the farm work force and earned \$2,756 annually, \$216 of which was from farm-work.
- --Seasonal workers who worked 25 to 74 days at farmwork made up 22 percent of the work force and earned \$2,799 annually, \$1,126 of which was from farmwork. Those who worked 75 to 149 days, 12 percent of all farmworkers, earned \$2,650 annually from farmwork and \$1,431 from nonfarmwork, for total annual earnings of \$4,081.
- --Eleven percent of the farm work force worked 150 to 249 days at farmwork. These workers, classified as regular workers, earned \$6,669 annually, of which \$5,908 was from farmwork.
- --Year-round workers, those working 250 days or more at farmwork, made up 16 percent of the hired farm work force. Their total average annual earnings were \$8,632, with \$8,461 from farmwork.

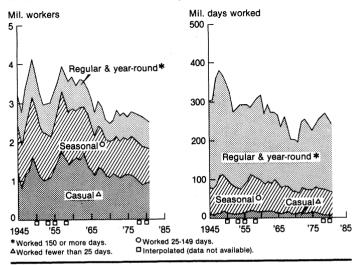
Casual and seasonal workers made up 73 percent of all workers but accounted for only 27 percent of the worker-days at hired farmwork (fig. 2).⁵ Regular and year-round workers made up about 25 percent of the work force but accounted for almost 75 percent of the worker-days.

The number of days spent at farmwork varied by racial/ethnic group. White and black and other farmworkers spent fewer days

A person completing at least 1 hour of farmwork during the day is credited with a worker-day of work.

Figure 2

Hired Farmworkers and Worker-Days



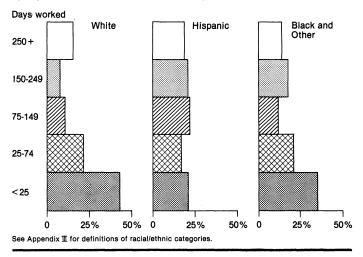
in the year doing farmwork than Hispanics (fig. 3). Whites did farmwork for an average of 91 days in 1981; blacks and others averaged 104 days of farmwork; and Hispanics averaged 131 days. Forty-three percent of the whites and 35 percent of the blacks and others worked fewer than 25 days at farmwork, compared with 21 percent of the Hispanics (the differences in number of days worked between blacks and others and Hispanics are significant at the 90-percent confidence level). Additional differences regarding days of farmwork are:

- --Female farmworkers were more likely than males to be casual workers. Over half (54 percent) of all female farmworkers did fewer than 25 days of farmwork, compared with 34 percent of the males. Conversely, only 9 percent of the females and 32 percent of the males worked 150 days or more.
- --Nonmigrants were twice as likely as migrants to be casual workers.
- --Farmworkers in Standard Federal Region IX, the Lower Pacific Coast States, were more likely to be regular and year-round workers than workers in other regions. Forty-three percent of the workers in Region IX worked 150 days or more.

Figure 3

Hired Farmworkers, 1981

By Days of Farmwork and Racial/Ethnic Groups



Primary Employment Status

The hired farm working force is comprised mostly of people whose primary activity is not hired farmwork (table 5). Only 28 percent of the Hired Farm Working Force Survey respondents listed hired farmwork as their major activity, while nearly 50 percent of the workers were not in the labor force most of the year. The majority of this latter group were students who worked during school breaks.

The type of employment at which farmworkers spend most of their time affects their annual earnings. Hired farmworkers whose primary employment was in the nonfarm sector had the highest earnings. In 1981, they earned an annual average of \$8,341, of which only \$949 came from farmwork. Workers whose primary employment was hired farmwork earned an annual average of \$7,258, with \$6,981 from farmwork. Those workers who were only casual labor force participants, including students and housewives, had the lowest average annual earnings.

There were significant differences in the primary employment status among the racial/ethnic groups. Approximately 40 percent of white farmworkers were attending school, compared with 12 percent of the Hispanics and 24 percent of blacks and others (fig. 4). (The difference in the percentage attending school most of the year between blacks and others and Hispanics is significant at the 90-percent confidence level.) Minority

Table 5-Hired farmworkers: Average annual earnings by primary employment status, 1981 $\underline{1}$ /

	:		All fa	armworkers		Farmwork	c only	Both farmy	Both farmwork and nonfarmwork		
Primary employment status 2/	:_	Wo	rkers	: Total : annual	Annual	: Workers	Annual farm	: Workers	Total annual	Annual farm	
<u></u>	:	Number	Distribution	earnings	earnings	:	earnings		earnings	earnings	
	:	Thousands	Percent	<u>Doll</u>	lars	Thousands	<u>Dollars</u>	Thousands	<u>Doll</u>	ars	
In labor force	:	1,303	. 52	6,962	4,290	712	6,347	591	7,695	1,802	
Hired farmwork		706	28	7,258	6,981	601	7,172	105	7,749	5,882	
Other farmwork	٠,٠	90	4	2,494	1,725	70	1,825	20	4/	4/	
Nonfarmwork	· :	420	17	8,341	949			420	8,341	949	
Unemployed	:	86	3	2,550	1,242	41	<u>4</u> /	46	4/	<u>4</u> /	
Not in labor	:										
force	:	1,189	48	1,378	872	766	961	423	2,132	711	
Keeping house	:	199	8	1,182	866	154	913	45	4/	<u>4</u> /	
Attending	:							0.4.0		(00	
school	:	858	34	1,307	809	516	894	342	1,932	682	
Other	:	132	5	2,127	1,286	96	1,396	36	4/	<u>4</u> /	
All hired	:										
farmworkers	:	2,492	100	4,299	2,659	1,478	3,557	1,014	5,381	1,350	
Migrants	:	115	5	3,995	2,728	83	3,080	32	4/	<u>4</u> /	

^{-- =} not applicable.

^{1/} Numbers and percentages may not add to totals due to rounding.

1/ Numbers and percentages may not add to totals due to rounding.

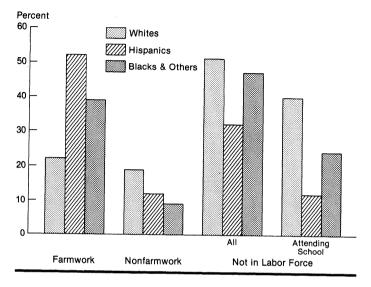
1/ Refers to respondent's chief activity during the year. See appendix for definitions.

1/ Includes operating a farm and unpaid family labor.

1/ Averages not shown where base is fewer than 50,000 workers.

Hired Farmworkers, 1981

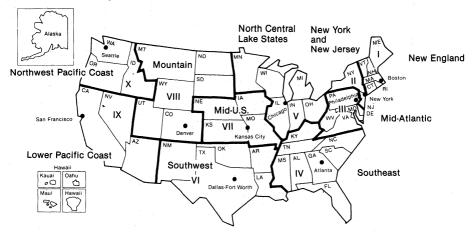
By Primary Employment Status and Racial/Ethnic Groups



farmworkers cited hired farmwork as their principal activity more often than whites. Just over half of the Hispanics and 39 percent of the blacks and others said that hired farmwork was their major activity, compared with only 22 percent of white farmworkers. The majority of Hispanic and black and other farmworkers (79 and 75 percent, respectively) said that hired farmwork was their only employment during the year. Only 53 percent of white farmworkers cited hired farmwork as their only employment.

REGIONAL DISTRIBU-TION The number and characteristics of hired farmworkers varied throughout the 10 Standard Federal Regions (SFR) (fig. 5). The demand for workers usually varied by type of crop and livestock activity, the length of the growing and harvesting seasons in the region, the extent of mechanization, and the scale of production. About 23 percent of all hired farmworkers were located in the Southeast (SFR IV) at the time of the December survey. The next largest concentration was in the North Central Lake States (SFR V) and the Southwest (SFR VI), where each had 15 percent of all workers. The Lower Pacific Coast (SFR IX) had 13 percent, and the Mid-United States (SFR VII) had 11 percent (table 6).

Standard Federal Regions



Racial/Ethnic Groups

The racial/ethnic composition of the hired farm working force also differed among the Standard Federal Regions. White farmworkers outnumbered minority farmworkers in all the Standard Federal Regions, except the Lower Pacific Coast, where the work force was made up of 49 percent Hispanic workers, 34 percent white, and 16 percent black and other. Hispanics also made up a larger percentage than blacks and others in the Southwest (SFR VI). Blacks and others, however, made up a significantly larger proportion of the farm work force than Hispanics in the Southeast (SFR IV), where 35 percent were blacks and others and 3 percent Hispanics. In the Mid-Atlantic Region (SFR III), 11 percent were blacks and others and less than 1 percent were Hispanics.

Crop and Livestock Activity

In 1981, 20 percent of all hired farmworkers were employed in grain production, more than the percentage for any other single commodity (table 7). Over 20 percent of the farmworkers were primarily involved in the production of vegetables and fruits and nuts, and another 20 percent worked in livestock and dairy activities.

Employment in crop and livestock activities varied by racial/ ethnic group. Whites and blacks and others were more often employed in field crop production than were Hispanics. About 52 percent of white farmworkers and 58 percent of black and

Table 6--Number and distribution of hired farmworkers, by racial/ethnic groups and Standard Federal Regions, 1981 1/

	All hired farmworkers								
Standard Federal Region	Tota	1	:	Distribu racial/eth	ution of nic groups				
	Number	Portion	White	Hispanic :	Black and other				
	: Thousands		<u>P</u>	ercent					
I-New England	: 60	2	100	2/	2/				
II-New York and	:			_	=/				
New Jersey	: 101	4	86	6	8				
III-Mid-Atlantic	: 119	5	89	$\frac{2}{3}$	11				
IV-Southeast	: 567	23	61	3	35				
V-North Central	:				33				
Lake States	: 380	15	99	1	2/				
VI-Southwest	: 384	15	60	27	$\frac{2}{14}$				
VII-Mid-United	:				7.4				
States	: 269	11	96	2	2				
/III-Mountain	: 107	4	92	5	4				
IX-Lower Pacific		•		-	4				
Coast	: 334	13	34	49	16				
X-Northwest	:				τ0				
Pacific Coast	: 172	7	86	13	1				
United States	2,492	100	73	13	14				
	:				14				

^{1/} Numbers and percentages may not add to totals due to rounding.

 $\overline{2}$ / Less than 0.5 percent.

other farmworkers worked in field crop production, compared with 31 percent of the Hispanic farmworkers. Hispanics, on the other hand, were primarily involved in the production of vegetables and fruits and nuts.

MIGRANTS

The number of migrant farmworkers in 1981 was significantly below the number in 1979. In 1981, only 115,000 workers reported that they did migrant work, compared with 217,000 in 1979. The 1981 estimate of migrant workers should be interpreted cautiously because it is based on a relatively small number of cases and the applicable standard errors may not fully reflect the extent of sampling and nonsampling errors. The estimate of 115,000 has a 95-percent confidence interval of 73,000 to 157,000 workers, compared with 159,000 to 275,000 workers for the 1979 estimate of 217,000 migrant farmworkers. Because of the low statistical reliability associated with the small estimate of migrant workers, some categories of data that have been published in previous issues of The Hired Farm Working Force are not presented for 1981.

Table 7--Number and distribution of hired farmworkers, by crop and livestock activity and racial/ethnic groups, 1981

Type of crop or	:	Whites	His	spanics	Blacks	and others	Total <u>2</u> /	
livestock activity $\underline{1}/$	Number	Distribution	Number	Distribution	Number	Distribution	Number	Distribution
	: Thousand	s Percent	Thousands	Percent	Thousands	Percent	Thousands	Percent
Grain	: 444	24	14	4	30	9	488	20
Cotton	: 34	2	44	14	36	11	115	5
Tobacco	: 183	10	4	1	90	27	277	11
Other field crops	: 284	16	38	12	36	11	358	14
Vegetables	: 143	8	108	33	55	16	307	12
	:							
Fruit and tree nuts	: 147	8	78	24	47	14	272	11
Beef cattle	: 145	8	11	3	20	6	176	.7
Dairy	: 161	9	5	2	4	1	169	7
Other livestock	: 116	6	6	2	5	1	127	5
Nursery	: 52	3	13	4 .	10	3	75	3
Other	: 115	6	6	2	6	2	128	5
Total	: : 1,824 :	100	328	100	340	100	2,492	100

^{1/} A worker was assigned to the crop or livestock activity for which he or she worked the greatest number of days during the year.

 $[\]underline{2}/$ Numbers and percentages may not add to totals due to rounding.

Migrant workers are defined as those individuals who travel across county or State boundaries and stay overnight to do farmwork for cash wages or salary. In 1981, migrants made up 5 percent of all farmworkers, and they were mostly white males, under 25 years of age, who spent most of the year out of the labor force as students (tables 8 and 9). Over half the migrants worked fewer than 75 days in the year at farmwork.

Migrant farmworkers earned an annual average of \$3,995 in 1981 from farmwork and nonfarmwork, about 68 percent of which came from farmwork. Thirty-seven percent of the migrants did hired farmwork as their primary occupation in 1981. Another 50 percent were not in the labor force; that is, they either attended school, kept house, or were retired or disabled. Migrant farmworkers who headed households made up 38 percent of all migrants.

About 40 percent of all migrants had completed high school, and about 40 percent of these graduates had some college education. However, some migrants had relatively low levels of education. Thirty-four percent had less than a ninth grade education and 7 percent were classified as functionally illiterate, having attended fewer than five years of school. These percentages were similar for migrant workers 25 years of age and over.

The backgrounds of migrant and nonmigrant farmworkers did not differ significantly (tables 8 and 9). Migrant workers were very similar to the rest of the hired farm working force in that both were made up predominantly of young males who spent only a small portion of their time at farmwork, probably to supplement other sources of income. The average annual earnings from farmwork and nonfarmwork for migrants and nonmigrants were \$3,995 and \$4,314, respectively. These earning levels were not significantly different, nor was there a significant difference between their annual average farm earnings.

Over the past 10 years, some characteristics of hired farmworkers have changed, although the number of workers has remained relatively stable (table 10). Whites made up a larger proportion of workers during the 1979-81 period than they did during the 1969-71 period. The number of black and other workers has declined by almost 38 percent during that time. Comparable data on Hispanic farmworkers are not available for both periods. Prior to 1975, data for Hispanic workers were included in either white or black and other categories based on the individual's race.

The ages of workers also changed. Fewer young people (ages 14 to 17 years) apparently entered hired farmwork. However, the number of workers 18 to 34 years of age increased, possibly indicating that workers stay in farmwork longer and depend more on their farm earnings. The number of workers 45 years of age and over decreased (table 10). These workers may have left farmwork either for nonfarm employment or early retirement.

TRENDS

Table 8--Migrant and nonmigrant farmworkers, by demographic characteristics, 1981

Demographic	Mig	grant	Nonm'	igrant
characteristics	Number	Distribution	Number	Distribution
	: Thousands	Percent	Thousands	Percent
Total <u>1</u> /	: 115	100	2,377	100
Racial/ethnic groups:	:			
Whites	: 88	75	1,736	73
Hispanics	: 19	17	309	13
Blacks and others	: 9	8	331	14
Sex and age (years):	:			
Male	: 96	100	1,823	100
14-17	: 28	29	430	24
18-24	: 29	30	574	31
25-34	: 11	11	366	20
35-44	: 9	9	170	9
45-54	: 15	16	112	6
	: 3	3	171	9
55 and over	:	3	171	,
Female	: 20	100	554	100
14-17	: 3	2/	144	26
18-34	: 8	$\frac{\overline{2}}{2}$	270	49
35-54	; 6	$\frac{\overline{2}}{2}$	105	19
55 and over	: 3	$\frac{\frac{2}{2}}{\frac{2}{2}}$	35	6
Household status:	:			
Household heads	: 44	38	1,003	42
Other household	: 77	30		· -
members	: 72	63	1,374	58
	:			
Years of schooling	:			
completed by all	:			
workers:	:	_		7
0-4	: 8	7	172	
5-8	: 31	27	525	22
9-11	: 30	26	743	31
12	: 27	23	609	26
13 and over	: 19 :	17	327	14
Census regions:	:			
Northeast	: 5	4	199	8
North Central	: 24	21	664	28
South	: 42	37	962	40
West	: 44	38	552	23

^{1/} Numbers and percentages may not add to totals due to rounding.

Table 9--Migrant and nonmigrant farmworkers, by employment and earnings characteristics, 1981

Demographic	: Mig	grant	: Nonmi	grant
characteristics	Number	Distribution	Number	Distribution
	: Thousands	Percent	Thousands	Percent
Total <u>1</u> /	: 115 :	100	2,377	100
Primary employment status:	: :			
Farmwork	: 43	37	753	32
Hired farmwork	: 43	37	663	28
Without nonfarmwork	: 38	33	564	24
With nonfarmwork	: 5	4	100	4
Other farmwork 2/	: 0		90	4
Nonfarmwork	: 12	10	408	17
Unemployed	: 4	3	83	3
Not in labor force	: 57	50	1,133	48
Keeping house	: 5	4	194	8
Attending school	: 50	43	808	34
Other	: 1	1	131	6
Days of farmwork:	:			
Fewer than 25	:	0.1	A	
25-74	: 24 : 37	21	945	40
75-149	: 37 : 12	32	501	21
150-249	: 12	10	299	12
250 and over	: 26	24 13	253 379	11 16
	:			
Farm and nonfarm earnings:	:			
Less than \$500	: 19	17	523	22
	: 18	15	231	10
\$1,000-2,499	: 18	15	441	19
	: 13	11	272	11
	: 11	9	161	7
1-1	: 19	17	219	9
\$7,500-9,999	: 7	6	222	9
\$10,000 and over	: 11 :	9	308	13
Farm earnings:	• •			
Less than \$500	: 28	24	943	40
\$500-999	: 19	16	291	12
1-7	: 23	20	420	18
1-1	: 11	9	175	7
	: 11	9	109	. 5
	: 17	15	145	6
\$7,500-9,999	: 4	3	141	6
	: 3	3	152	6
	:			

^{-- =} not applicable. 1/ Numbers and percentages may not add to totals due to rounding. 2/ Includes operating a farm and unpaid family labor.

Table 10--Number of hired farmworkers, by selected characteristics, averages for 1969-71 and 1979-81

Item :	3-year average	2-year average <u>1</u> /		: Percentage	of total
·	1969-71	: 1979-81 :	1979-81	: 1969-71 :	1979-81
:	<u>The</u>	ousands		Percent	
: Total <u>2</u> /	2,536	2,527	1.2	100	100
Race: 3/ :			*		
Whites :	1,975	2,222	12.5*	78	86
Blacks and :			**		
others :	561	350	-37.6 **	22	14
Age (years):			**		
14-17 :	849	656	-22.7**	33	26
18-24 :	559	781	39.7	22	30
25-34 :	315	478	51.7	12	19
35-44 :	252	259	2.8	10	10
45-54 :	238	171	-28.2°	9	7
55-64 :	200	116	-42.0	8	5
65 and over :	124	111	-10.5	5	4
Region: :					
Northeast :	240	196	-18.3*	9	8
North Central :	609	737	21.0	24	29
South :	1,090	1,038	-4.8	43	40
West :	598	601	• 5	24	23
Days of farmwork::			**		
Fewer than 25 :	1,130	934	-17.3 **	45	36
25-74 :	663	605	-8.7	26	24
75-149 :	255	317	24.3	10	12
150-249 :	191	308	61.3	7	12
250 and over :	297	409	37.7	1.2	16
Migratory status::					
Migratory :	208	166	-20.2	8	6
Nonmigratory :	2,328	2,406	3.3	92	94
Primary employ- :					
ment status: :					
Nonfarmwork :	376	458	21.8	15	18
Hired farmwork :	517	731	41.4	20	29

^{1/} A 2-year average for 1979 and 1981 was used because the hired farm working force survey became biennial after 1977. Data for 1980 are not available.

^{2/} Percentages and numbers may not add to totals due to rounding.

^{3/} Hispanic data were not available for hired farmworkers for 1969-71.

^{*} Significant at the 90-percent confidence level.

^{**} Significant at the 95-percent confidence level.

The South still had more hired farmworkers than other regions but had not gained in relative share of workers. The only region showing a significant change was the North Central Region, where the number of workers increased by 21 percent.

Hired farmworkers are working more days a year at farmwork than they did 10 years ago, thus suggesting stronger attachments to farmwork for their primary source of earnings. While the largest proportion of workers still work fewer than 25 days at farmwork, their numbers have declined by 17 percent. The number of regular workers, however, has increased by almost two-thirds, and year-round workers have increased by over one-third. Overall, the number of worker-days increased from 198 million in the 1969-71 period to 257 million in the 1979-81 period. These increases are due in part to increased farm sizes, which require a larger hired farm work force to supplement family labor.

APPENDIX I

Appendix table 1—All hired farmworkers: Distribution by racial/ethnic groups and selected characteristics, 1981

Characteristics	: Total	: Whites	: Hispanics	: Blacks and othe			
	: Thousands						
111 workers	: 2,492	1,824	328	340			
Primary employment status:	:						
Farmwork	: 796	490	170	135			
Hired farmwork	: 706	403	170	133			
Without nonfarmwork	: 601	320	158	123			
	: 105	83	11	10			
	: 90	87	0	2			
Nonfarmwork	: 420	351	39	30			
Unemployed	: 86	60	13	14			
Not in labor force Keeping house	: 1,189 : 199	923 101	106 46	161 52			
Attending school	: 858	738	39	81			
Other	: 132	84	21	28			
esidence and age (years):							
All workers	: 2,492	1,824	328	340			
14-17	: 605	513	46	47			
18-24	760	603	76	82			
	: 498	351	85	61			
35-44	: 236	142 93	56	38			
	: 180 : 104	93 51	41 16	46 36			
65 and over	: 108	71	7	36 29			
	: : 2,083	1,479	296	308			
	535	449	41	45			
18-24	: 622	477	73	71			
	: 419	287	75	56			
	: 187	105	47	35			
	: 152	74	38	41			
55-64	: 81	30	15	36			
65 and over	: 88 :	56	7	24			
ears of education completed by workers 25 and over:	:						
	1,126	709	206	212			
0-4	: 159	31	76	53			
	: 296	132	91	72			
	: 165	112	13	40			
	: 308 : 198	264 170	18 8	27 20			
	:	170	ŏ	20			
igratory status: Migratory	: : 115	88	. 19	9			
	: 2,377	1,736	309	331			
tandard Federal Regions:	:						
I .	: 60	60	0	0			
II	: 101	87	6	. 8			
III	: 119	106	.0	13			
N A	: 567 : 380	347 377	18 3	201 0			
	: 384	229	102	53			
AII	: 269	258	6	6			
VIII	: 107	98	5	4			
IX	: 334	115	165	54			
x	: 172 :	148	23	2			
ensus regions:	:						
	: 204	190	6	8			
North Central South	: 688	672	. 8	8			
	: 1,004 : 595	627 335	113 201	265 59			
ays of farmwork:	:						
	969	781	69	119			
25-74	: 538	409	57	73			
75-149	: 310	198	. 72	40			
150-249	: 281	150	70	61			
250 and over	394	285	61	48			
ousehold status: Heads	:	750		180			
Other members	: 1,046	752 1,072	142 185	152			
Orner memoers	1,446	1,0/2	182	189			

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Appendix table 1--All hired farmworkers: Distribution by racial/ethnic groups and selected characteristics, 1981--continued

Characteristics	: Total	: Whites	: Hispanics	: Blacks and others
	:	Pe	rcent	
All workers	: : 100	100	100	100
Primary employment status:				
Farmwork	: 32	27	52	40
Hired farmwork	: 28	22	52	39
Without nonfarmwork	: 24	18	48	36
With nonfarmwork	: 4	5	4	3
Other farmwork 1/	: 4	5	0	i
Nonfarmwork	: 17	19	12	. 9
Unemployed	: 3	3	4	4
Not in labor force Keeping house	: 48	51	32	47
Attending school	: 8	.6	14	15
Other	: 34 : 5	40 5	12 6	24
Residence and age (years):	:			
All workers	: 100	100	100	100
14-17	: 24	28	14	100 14
18-24	: 31	33	23	24
25-34	: 20	19	26	18
35-44	: 9	8	17	11
45-54	: 7	5	12	14
55-64	: 4	3		ii
65 and over	: 4	4	2	9
Nonfarm residence	: 100	100	100	100
14-17 18-24	: 26	30	14	15
	: 30	32	25	23
25-34 35-44	: 20	19	25	18
45-54	: 9 : 7	7	16	11
55-64	: 4	5 2	13	13
65 and over	: 4	4	5 2	12 8
looms of adventure and the law	•		-	· ·
Years of education completed by workers 25 and over:	:			
All workers	:			
0-4	: 100	100	100	100
5-8	: 14 : 26	4 19	37	25
9-11	: 26	16	44	34
12	: 27	37	6 9	19
13 and over	: 18	24	4	13 9
figratory status:	:			
Migratory	: 5	5	6	3
Nonmigratory	: 95	95	94	97
tandard Federal Regions:	:			
I	: 2	3	0	0
III	: 4	5	2	2
IV	: 5 : 23	.6	0	4
v ·	: 23 : 15	19	6	59
VI	: 15	21 13	1	0
VII	: 11	14	31	15
VIII	: 11	14 5	2 2	2
IX	: 13	6	51	1 16
х	: 7	8	7	0
ensus regions:	:			
Northeast	. 8	10	2	2
North Central	. 28	. 37	2 2	2 2
South	: 40	34	34	78
West	24	18	61	17
ays of farmwork:	:			
Fewer than 25	: 39	43	21	35
25-74	22	22	17	21
75-149	: 12	11	22	12
150-249	: 11	8	21	18
250 and over	: 16	16	19	14
ousehold status;	:			
Heads Other members	: 42	41	43	45
	: 58	59		55

Zeros indicate estimate was fewer than 500. $\frac{1}{2}$ Includes operating a farm and unpaid family labor.

Appendix table 2--All hired farmworkers: Distribution by racial/ethnic groups, sex, and selected characteristics, 1981

Characteristics	To		Whi	tes	Hisp	anics	Blacks an	d other
Characteristics	Male	Female	Male	Female	Male	Female	Male	Femal
	:			Thou	sands			
11 workers	: : 1,918	574	1,434	390	237	, 90	247	.9
rimary employment status:	;							
Farmwork	: 721	75	450	40 35	149 148	21 21	122 120	1
Hired farmwork	: 636 : 536	70	368 288	32	137	21	111	1
Without nonfarmwork	: 100	66 4	200 80	32	11	0	111	
With nonfarmwork	: 85	5	82	5	0	ő	ź	
Other farmwork 1/ Nonfarmwork	: 325	96	268	83	36	·š	22	
Unemployed	: 83	3	58	2	12	í	13	
Not in labor force	: 790	400	658	265	42	64	91	7
Keeping house	: 15	184	13	89	1	45	2	5
Attending school	: 653	205	572	166	20	19	61	2
Other	: 122	10	73	10	21	0	28	
tesidence and age (years):	:					90	247	ç
All workers	: 1,918	574	1,434	390	237		39	,
14-17	: 458	147	396	116	23 63	22 13	59	2
18-24	: 603 : 377	158 121	481 272	121 79	63 67	18	38	
25-34	: 377 : 179	121 58	112	29	41	16	26	1
35-44 45-54	: 179	53	67	26	24	16	35	i
55-64	: 82	22	43	8	12	4	27	
65 and over	: 92	16	61	11	7	ó	24	
Nonfarm residence	: 1,592	490	1,162	317	212	84	219	8
14-17	: 405	131	348	101	20	21	37	
18-24	: 487	135	376	101	61	13	50	- :
25-34	: 317	102	222	65	. 60	15	35	2
35-44	: 143	44	88	17	33	14	22	1
45-54	: 102	50	.51	22	21	. 16	29 27	1
55-64 65 and over	: 66 : 73	15 14	28 47	. 2	. 10 7	0	19	
Years of education completed	:							
by workers 25 and over:	:							
All workers	: 857	269	556	153	152	54	150	•
0-4	: 121	38	31	0	51	25	39	
5-8	: 244	52	120	12	67	25	57	
9-11	: 131	34	91	21	13	0	27	1
12	: 220	88	193	70	14	3	13	
13 and over	: 141	57	120	50	7	- 2	14	
Migratory status:		20	74	14	13	6	9	
Migratory	: 96 : 1,823	554	1,360	377	225	84	238	9
Nonmigratory	: 1,023	354	1,500	3//		٠,		
Standard Federal Regions:	: 39	21	39	21	0	0	0	
·II	: 79	22	67	19	4	2	8	
III	: 103	16	90	16	. 0	0	13	
IV	: 435	132	278	69.	13	5	143	:
V	: 288	91	286	91	.3	0	.0	
VI .	: 310	74	197	32	69	33	43 4	
VII	: 204	65 14	195 85	63 12	5 3	1 2	4	
VIII	: 93 : 252	82	92	23	129	36	31	
X X	: 232	56	103	44	. 11	12	i	
Census regions:	:							
Northeast	: 161	43	149	41	4	2	8	
North Central	: 527	161	514	159	8	1	6	
South	: 785	219	510	117	78	35	198	
West	: 444	151	261	74	148	52	35	:
Days of farmwork:	:							
Fewer than 25	: 658	312	553	228	38	31	67	
25-74	: 390	149	312	98 .	30	26	48	
	: 247	63	163	35	51	21	34	
75-149	. 05'							
150-249 250 and over	: 254 : 369	26 24	141 264	9 21	58 61	12 0	55 45	

Appendix table 2--All hired farmworkers: Distribution by racial/ethnic groups, sex, and selected characteristics, 1981--continued

Characteristics	•	otal	: Whi	tes	His	panics	Blacks a	nd other
	Male:	: Female	Male	Female	Male:	: Female	Male	Femal
				Per	cent			
11 workers	: 100	100	100	100	100	100	100	10
rimary employment status: Farmwork	: 38							
Hired farmwork	: 38	13 12	31 26	10	63	24	49	1:
Without nonfarmwork	: 28	11	20	9 8	62 58	24	48	1:
	: 5	î	6	1	5	24 0	45 3	1:
Other farmwork 1/	: 4	ī	6	î	ő	. 0	1	
	: 17	17	19	21	15	4	9	
	: 4	1	4	0	5	i	5	
	: 41	70	46	68	17	71	37	7
Keeping house	: 1	32	1	23	0	50	1	54
Attending school Other	: 34	36 2	40 5	43 3	9	21 0	25 11	2
	:	-	,	3	9	U	11	٠ (
	:							
All workers 14-17	: 100	100	100	100	100	100	100	100
	: 24	26	28	30	10	25	16	
	: 31	27 21	34	31	26	15	24	2
	: 20 .	10	19 8	20 8	28 17	20	15	20
	. 7	9	5	7	10	17 18	11 14	13
	: 4	á	3	2	5	18 5	14	1:
65 and over	: 5	3	4	3	3	0	10	10
	: : 100	100	100	100	100	100	100	10
	: 25	27	30	32	9	25	17	10
	: 31	28	32	32	29	15	23	2
	: 20	21	19	21	28	18	16	25
	: 9	9	7	5	16	17	10	1
	: 6	10	4	7	10	19	13	1
	: 4 : 5	3 3	3 4	1 3	5 3	5 0	12	10
ears of education completed by workers 25 and over:		J	•	,	3	U	9	6
All workers	: 100	100	100	100	100	100		
0-4	: 14	14	6	100	100 34	100	100	100
	: 28	19	22	8	34 44	46	26	21
	: 15	13	16	14	8	46 0	38 18	24
	: 26	33	35	46 .	9	5	9	23
	: 16 :	21	21	33	Ś	4	ģ	10
igratory status:	•							
Migratory		3	5	4	5	. 7	4	(
Nonmigratory	95	97	95	. 96	95	93	96	100
andard Federal Regions:								
I II		4	3	5	0	0	0	(
III		4	5	5	2	2	3	C
IV		3 23	6 19	4	0	0	5	0
v ·		23 16	19 20	18 23	6	5	58	62
vi		13	14	8	1 29	0	.0	0
VII		11	14	16	29	36 1	17 2	10
VIII		2	6	3	1	2	2	0
IX		14	6	6	54	40	12	25
x :		10	7	11	5	13	1	20
nsus regions:	:							
Northeast		7	10	10	2	2	3	0
North Central		28	36	41	3	ī	2	2
South West		38 26	36 18	30 19	33	39	80	72
		20	10	17	62	58	14	26
ys of farmwork: : Fewer than 25 :		54	39	58	1.0	2-		
25-74		26	22	58 25	16 13	35	27	56
75–149		11	11	25 9	13 21	29 23	19	27
150-249		5	10	2	24		14	7
250 and over	19	4	18	5	24 26	13	22	7

Zeros indicate estimate was fewer than 500. $\underline{1}/$ Includes operating a farm and unpaid family labor.

Appendix table 3--Hired farmworkers who did fewer than 25 days of farmwork: Distribution by racial/ethnic groups and selected characteristics, 1981

Characteristics	: Total	: Whites	: Hispanics	: : Blacks and other :
	:		ısands	
All workers	: : 969 :	781	69	119
Primary employment status:	:			
	: 50	49	0	1
	: 2	2	0	0
	: 2	2	0 0	0
	: 0	47	0	1
	: 48 : 249	214	16	19
	: 249	33	6	3
	: 629	486	47	96
Keeping house	: 106	55	14	36
	: 454	380	29	46
Other	: 69 :	51	4	14
Residence and age (years):	•			119
	: 969	781 280	69 24	29
	: 333 : 279	280 236	16	26
	: 2/9	133	15	19
	: 60	42	5	12
	: 52	34	9	9
55-64	: 25	18	0	7
65 and over	: 55 :	37	0 .	17
Nonfarm residence	: 859	687	64	108
	: 304	256 209	21 15	27 24
10-24	: 248 : 147	209 117	14	16
25-54	: 147	38	5	12
	: 48	31	9	9
	: 17	10	Ó	7
65 and over	: 40	26	ō	14
Years of education completed by	:			
workers 25 and over:	:			
	: 358	265	29	64
	: 32	9	3 -	20
5-8	: 83	53	13	17
9-11	: 49	31	6	12
12	: 124	108	. 6	10
13 and over	: 70 :	63	2	5
figratory status: Migratory	: : 24	23	1	1
Nonmigratory	: 945	758	68	118
Standard Federal Regions:	:			
I	: 24	24	0	0
II	: 24	21	0	3
III	: 40	35	0	5 75
IV	: 229 : 188	154 188	0	75
V	: 188	94	43	14
VI VII	: 143	139	2	2
AIII	: 39	34	2	3
IX	: 73	39	19	15
x	: 59 :	54	3	1
Census regions:	:		_	_
Northeast	: 63	60	0	3
North Central	345	338	2 41	92
South West	: 398 : 163	265 118	26	92 19
Household status:	:			
		268	15	43
Heads	: 325			
Heads Other members	: 325 : 644	513	55	76

	:		: '	:			
	Percent						
111 workers	100	100	100	100			
Primary employment status: Farmwork			_				
	5	6	0	1			
Hired farmwork Without nonfarmwork	: 0	0	0	0			
With nonfarmwork	. 0	0	0	0			
Other farmwork 1/	: 0	0	0	0			
Nonfarmwork 1/		6	0	1			
Unemployed	: 26 : 4	27 4	23	16			
Not in labor force	: 65	62	9	2			
Keeping house	: 05	7	67 21	81			
Attending school	: 47	49	4I	30			
Other	: 7	7	6	38 12			
esidence and age (years):	:						
All workers	: 100	100	100	100			
14-17	: 34	36	35	24			
18-24	: 29	30	23	22			
25-34	: 17	17	22	16			
35-44	: 6	5	8	10			
45-54	: 5	4	12	7			
55-64	: 3	2	0	6			
65 and over	; 6 :	5	0	15			
Nonfarm residence 14-17	: 100	100	100	100			
18-24	35	37	33	25			
25-34	: 29	30	23	22			
35-44	: 17	17	22	15			
45-54		6	. 8	11			
55-64	: 6 : 2	5 1	14	8			
65 and over	: 5	4	0 .	6 13			
ears of education completed by	:						
workers 25 and over:	:						
All workers	: 100	100	100	100			
0-4	: 9	3		31			
5-8	: 23	20		27			
9-11	: 14	. 12		19			
12	: 35	41		16			
13 and over	: 20	24		8			
igratory status:	:						
Migratory Nonmigratory	: 2 : 98	3 97	1 99	1 99			
tandard Federal Regions:	:			,,			
I	. 2	3	0	^			
II	. 3	3	0	0 3			
III	: 4	5	Ö	4			
IV	: 24	20	ŏ	63			
V	: 19	24	o o	0			
VI	: 16	12	62	12			
VII	: 15	18	3	2			
VIII	: 4	4	3	3			
IX X	: 8 : 6	5 7	28 5	12 1			
	•	•	,	1			
ensus regions: Northeast	:	_					
North Central	: 7	8	0	3			
South	: 36	43	3	4			
West	: 41 : 17	34 15	60 38	78 16			
ousehold status:	:						
Heads	: 34	34	21	36			
Other members	: 66	66	79	64			

Zeros indicate estimate was fewer than 500. --- = base was fewer than 50,000 persons. $\underline{1}/$ Includes operating a farm and unpaid family labor.

Appendix table 4--Hired farmworkers who did 25 to 149 days of farmwork: Distribution by racial/ethnic groups and selected characteristics, 1981

	: Total	: Whites	: Hispanics	: Blacks and othe
	:	Tho	usands	
	:			
	: 848 :	607	128	113
Primary employment status:	:	76	45	26
	: 147 : 117	76 47	45	25
	: 94	29	40	25
	: 23	18	5	0
	: 30	29	0	1
Nonfarmwork	: 157	126	21	11
	: 42	24	7	11 65
	: 502	382	55 29	16
Keeping house	: 89 : 355	43 311	9	35
Attending school Other	: 58	27	17	14
Residence and age (years):	:			
All workers	: 848	607	128	113
14-17	: 236	200	18	18
18-24	: 298	232	28	38
25-34	: 147	93	33	21 9
35-44	: 63	35	19 18	13
45-54	: 47 : 25	16 12	7	6
55-64 65 and over	: 25 : 33	20	5	7
	: : 733	503	123	106
Nonfarm residence 14-17	: 206	172	16	18
18-24	: 250	186	28	36
25-34	: 132	81	32	19
35-44	: 53	27	17	9
45-54	: 43	13 7	18 7	12 6
55-64	: 20 : 29	18	5	6
65 and over	: 29	10	,	v
Years of education completed by	:			
workers 25 and over: All workers	: 314	175	82	57
0-4	: 51	6	36	10
5-8	: 89	31	38	20
9-11	: 32	22	2	8
12	: 77	65	3	10
13 and over	: 65 :	52	4	9
Migratory status:	:	49	0	0
Migratory Nonmigratory	: 49 : 799	559	128	113
- '	:			
Standard Federal Regions: I	: 18	18	0	0
ĪI	: 43	35	6	3
III	: 40	34	0	6
IV	: 194	123	5	66
V	: 122	120	3	0 19
VI	: 115 : 82	72 77	25 3	2
VII VIII	: 43	39	2	1
IX	: 116	31	69	16
X	: 74	59	15	0
Census regions:	:			
Northeast	: 74	65	6	3
North Central	: 222	214	6	2
South West	: 331 : 222	211 117	29 87	91 17
	:			
Household status: Heads	: : 272	197	43	33
Other members	: 576	411	85	80
	:			

Characteristics	: : Total :	: Whites	: Hispanics	: : Blacks and othe :
	:	Per	cent	
All workers	: 100	100	100	100
Primary employment status:	:			
Farmwork	: 17	13	35	23
Hired farmwork	: 14	8	35	22
Without nonfarmwork	: 11	5	31	22
With nonfarmwork	: 3	3	4	0
Other farmwork 1/	: 4	5	ó	i
Nonfarmwork	: 19	21	17	9
Unemployed	: 5	4	5	10
Not in labor force	: 59	63	43	58
Keeping house	: 10	7	23	14
Attending school	: 42	51	7	31
Other	: 7 :	4	13	12
Residence and age (years):	:			
All workers	: 100	100	100	100
14-17	: 28	33	14	16
18-24	: 35	38	22	33
25-34	: 17	15	26	19
35-44	; 7	6	15	8
45-54	: 6	3	14	12
55-64	: 3	2	6	5
65 and over	: 4	3	4	7
Nonfarm residence	: 100	100	100	100
14-17	: 28	34	13	17
18-24	: 34	37	23	34
25-34	: 18	16	26	18
35-44	: 7	5	14	8
45-54	: 6	3	15	11
55-64	: 3	1	6	6
65 and over	: 4	4	4	6
Years of education completed by	:			
workers 25 and over:	:			
All workers	: 100	100	100	100
0-4	: 16	3	44	18
5-8	: 28	18	46	35
9-11	: 10	13	2	14
12	: 25	37	4	18
13 and over	: 21	30	5	16
igratory status:	:			
Migratory	: 6	8	0	0
Nonmigratory	: 94	92	100	100
tandard Federal Regions:	:			
I	: 2	3	0	0
II	: 5	6	5	2
III	: 5	6	0	5
IV V	: 23	20	4	59
V VI	: 14	20	2	0
	: 14	12	19	17
	: 10 : 5	13	2	1
	: 14	6	2	.1
	: 14	5 10	54 12	14
	:	==		3
	:			
	: 9	11	5	2
	: 26	35	4	2
	: 39 : 26	35 19	23 68	81 15
	: 20	17	00	13
	: : 32	32	33	20
	: 68	68	67	29
	. 00	00	6/	71

Zeros indicate estimate was fewer than 500. $\underline{1}/$ Includes operating a farm and unpaid family labor.

Appendix table 5--Hired farmworkers who did 150 or more days of farmwork: Distribution by racial/ethnic groups and selected characteristics, 1981

Characteristics	: Total	: Whites	: Hispanics	: Blacks and other
	:	Tho	usands	
	:			
ill workers	: 674 :	435	130	109
Primary employment status:	:			
Farmwork	: 598	366	124	108
Hired farmwork	: 587	354	124 118	108 98
Without nonfarmwork With nonfarmwork	: 505 : 82	289 65	6	10
Other farmwork 1/	: 12	12	ő	ŏ
Nonfarmwork	. 14	12	2	ī
Unemployed	; 3	3	0	0
Not in labor force	: 59	55	4	Ō
Keeping house	: 5	3	2	0
Attending school	: 49	47	2	0
Other	: 6 :	6	0	0
Residence and age (years):	:			
All workers	: 674	435	130	109
14-17	: 36	33	4	0
18-24	: 184 : 183	135 125	32 37	18 21
25-34		65	32	17
35-44		42	14	25
4554 5564	: 81 : 54	22	9	24
65 and over	: 20	14	ž	4
Nonfarm residence	: : 491	289	108	94
14-17	: 25	21	4	0
18-24	: 123	83	30	11
25-34	: 139	89	29	21
35-44	: 79	41	25	13
45-54	: 61	30	11	20
55-64	: 44	13	7	24
65 and over	: 19 :	12	2	4
Years of education completed by	•			
workers 25 and over:	:			
All workers	: 454	268	95 38	91 23
0-4	: 76	15 48	38 41	35
5-8	: 124 : 83	46 58	5	20
9-11 12	: 03	91	8	7
13 and over	: 64	55	3	6
figratory status:	:			
Migratory	. 42	16	18	. 8
Nonmigratory	: 632	419	113	100
Standard Federal Regions:	:			
I	: 18	18	0	0
II	: 34	31	0	2
III	: 38	36	0	2
IV	: 143	70	13	60 0
V UT	: 70	70 64	0 35	20
VI	: 118 : 44	42	1	20
VII VIII	: 44	25	1	0
IX	: 144	45	77	23
x	: 39	35	5	0
Census regions:	:			1
Northeast	67	64	0	2
North Central	: 122	120	i	2
South	: 275	151	43	81
West	: 210	100	. 87	24
Household status:	•			
Heads	: 449	288	85	76
Other members	: 226	148	45	33

Appendix table 5--Hired farmworkers who did 150 or more days of farmwork: Distribution by racial/ethnic groups and selected characteristics, 1981--continued

Characteristics	: Total	: Whites	: Hispanics	: Blacks and oth			
	<u>Percent</u>						
All workers	: 100	100	100	100			
Primary employment status:	:			100			
Farmwork	: 89	84	96	99			
Hired farmwork	: 87	81	96	99			
Without nonfarmwork	: 75	66	91	90			
With nonfarmwork	: 12	15	5	, j			
Other farmwork 1/Nonfarmwork	: 2	3	0	0			
Unemployed	: 2	3	1	1			
Not in labor force	: 0	1	o	0			
Keeping house	: 1	13	3	0			
Attending school	; 7	1 11	2	0			
Other	: 1	1	1 0	0			
Residence and age (years):	:						
All workers	: 100	100	100	100			
14-17	: 5	7	3	0			
18-24	: 27	31	24	16			
25-34 35-44	27	29	28	20			
45-54	: 17 : 12	15	25	16			
55-64	: 12 : 8	10 5	11	23			
65 and over	: 3	3	7 2	22 4			
Nonfarm residence	: : 100	100	100				
14-17	: 5	7	4	100			
18-24	: 25	29	28	12			
	: 28	31	27	22			
35-44	: 16	14	. 23	14			
	: 12	10	10	21			
	; 9	4	6	26			
	: 4	4	2	4			
workers 25 and over:	:						
	: 100 : 17	100	100	100			
	: 17 : 27	6	40	25			
	: 18	18 22	43	38			
	: 24	34	5 8	22			
13 and over	: 14	20	8 3	8 7			
ligratory status:	: :	*					
	: 6	4	14	8			
Nonmigratory		96	86	92			
tandard Federal Regions:							
II		4 7	0	0			
III		8	0 0	2			
IV	•	16	10	2			
v :		16	0	55 0			
VI		15	26	18			
VII	•	10	0	2			
VIII IX		6	1	ō			
X .		10 8	59 3	21 0			
ensus regions:		•	,	U			
Northeast	10	15	•				
North Central		28	0 0	2			
South		26 35	0 33	2 75			
West	31	23	67	75 22			
ousehold status:							
Heads :	67	66	65	70			
Other members :	33	34	35	30			

Zeros indicate estimate was fewer than 500. $\underline{1}/$ Includes operating a farm and unpaid family labor.

Appendix table 6--All hired farmworkers: Days of farmwork by selected characteristics, 1981

Chamachandan				of hired farmworker y days worked	rs	
Characteristics	: Total	Fewer than 25 :	25 to 74	: 75 to 149	: 150 to 249	: 250 and ove
-			Th	ousands		
All workers	: 2,492	969	538	310	281	394
Ethnic groups:	:					
Whites	: 1,824	781	409	198	150	285
Hispanics	328	69	57	- 72	70	61
Blacks and others	: 340	119	73	40	61	48
Primary employment st	atus: :					
Farmwork	: 796	50	43	104	229	370
Hired farmwork	: 706	2	22	95	224	363
Without nonfarm		2	17	78	170	335
With nonfarmwor		. 0	6	17	54	28
Other farmwork 1/		48	21	9	.5	7
Nonfarmwork	: 420	249	105	53	10	5
Unemployed	: 86	42	24	18	3	0
Not in labor force	: 1,189	629	366	136	40	19
Keeping house	: 199	106	70	19	3	2
Attending school	: 858	454	272	83	31	18
Other	: 132	69	24	34	6	0
Sex and age (years):	:					
Males	: 1,918	658	390	247	254	369
14-17	: 458	229	155	38	25	10
18-24	: 603	200	132	96	72	103
25-34	: 377	116	47	45	65	103
35-44	: 179	33	18	22	28	78
45-54	: 127	19	16	18	27	46
55-64	: 82	18	8	11	.27	18
65 and over	: 92 :	42	13	17	10	10
Females	: 574	312	149	63	26	24
14-17	: 147	103	32	. 11	. 0	0
18-24	: 158	79	59	. 10	7	3
25-34	: 121	52	33	22	6	8
35-44	: 58	26	- 11	12	3	5
45-54	: 53	33	11	2	4	3
55-64	: 22	. 6	1 -	, 5	5	4
65 and over	: 16	13	1	. 1	0	1
Residence:	:					
Farm	: 409	111	73	43	57	126
Nonfarm	: 2,083	859	465	267	223	268
Migratory status:	:					•
Migratory	: 115	24	37	12	28	15
Nonmigratory	: 2,377	945	501	299	253	379
Standard Federal Regi	: lons: :					
I	: 60	24	11	. 7	10	. 8
II	: 101	24	.29	14	11	22
III	: 119	40	33	.7	4	34
IV	: 567	229	134	60	. 17	66
Ÿ	: 380	188	82	41	27	43
AI .	: 384	150	68	48	42	76
VII	: 269	143	45	37	18	26
VIII	: 107	39	27	16	8	18
IX	: 334	73	60	56	66	78
X	: 172	59	50	23	18	21
	:					
Census regions:						
Census regions: Northeast	: 204	63	50	24	22	44
Northeast North Central	: 688	345	136	86	48	74
Northeast						

Continued--

Appendix table 6--All hired farmworkers: Days of farmwork by selected characteristics, 1981--continued

Characteristics	:	:	Number	of hired farmworkers		
	Total	: Fewer than 25 :	25 to 74	By days worked : 75 to 149	: 150 to 249	: 250 and over
				Percent		
All workers	: 100	39	22	12	11	, 16
thnic groups:	:					Į.
Whites Hispanics	: 100	43	22	11	8	16
Blacks and others	: 100 : 100	21 35	17 21	22 12	21 18	19 14
Primary employment status:	:					
Farmwork	: 100	6	5	13	29	46
Hired farmwork	: 100	0	3	13	32	51
	: 100	0	3	13	28	56
	: 100	0	6	16	51	27
	: 100	53	23	. 10	5	8
	: 100	59	25	13	2	1
	: 100	48	28	21	3	0
	: 100 : 100	53	31	11	3	2
	: 100 : 100	53 53	35 32	9	1	1
Other	: 100	52	18	10 26	4 4	2 0
Sex and age (years):	:					
	: 100	34	20	13	13	19
	: 100	50	34	8	6	2
	: 100	33	22	16	12	17
	: 100	31	13	12	17	27
	: 100	18	10	12	16	44
	: 100	15	13	14	21	37
	: 100 : 100	22 46	10 15	13 18	33 10	*22 11
	: : 100	54	26	11	5	
	: 100	70	22	8	0	4 0
	: 100	50	38	6	4	2
	: 100	43	27	18	5	7
35-44	: 100	46	20	20	6	8
	: 100	61	20	4	8	6
55-64						
65 and over		, 				
esidence :	•					
		27	18	10	14	31
•		41	22	13	11	13
dgratory status:	:					
Migratory		21	32	10	24	13
Nonmigratory	100	40	21	13	11	16
tandard Federal Regions:						
<u>I</u> :		39	18	12	16	14
II :		24	28	14	11	22
III :		34	28	6	4	29
IV :		40	24	11	14	12
V :		49	22	11	7	11
VI VII		39	18	13	11	20
		53	17	14	7	10
VIII :		36	25	15	7	17
X :		22 34	. 18 29	17 14	20 11	23 12
ensus regions: :						
Northeast :		31	25	12	11	22
North Central :		50	20	12	7	22 11
South :		40	22	11	12	15
West :		27	22	15	15	20

Zeros indicate estimate was fewer than 500.

^{-- =} base was fewer than 50,000 persons.

1/ Includes operating a farm and unpaid family labor.

Appendix table 7--All hired farmworkers: Demographic characteristics by average number of days worked and earnings, 1981

		: Farm and		Farmwork			ers who farmwork	did hired only	
Characteristics		: nonfarm		; _{Ferr}	1000	Thousands:	Days	: Earn	ings
:	workers	: earnings		Earn Daily :		of : Workers :	worked	: Daily :	
		·	·						
		Dollars	Number	<u>Doll</u>	ars	<u>Numb</u>	er	<u>Doll</u>	ars
111 workers	2,492	4,299	98	27.20	2,659	1,478	129	27.64	3,557
Ethnic groups and sex:									
Whites	: 1,824	4,288	91	26.03	2,359	963	125	26.24	3,293
Hispanics	328	5,340	131	32.89	4,319	259	150	33.28	4,995
Blacks and others		3,358	104	25.71	2,668	256	119	25.98	3,098
Males	: : 1,918	4,829	112	27.47	3,073	1,145	147	27.86	4,092
Whites		4,713	102	26.45	2,710	781	138	26.63	3,682
Hispanics	237	6,447	155	33.26	5,155	178	186	33.64	6,256
	247	3,948	125	25.42	3,175	186	146	25.70	3,745
	: : 574	2,526	51	25.19	1,276	333	66	25.94	1,719
I CHICAGO	: 374 : 390	2,725	47	22.71	1,071	182	71	22.98	1,622
WILLECO	: 390	2,723	69	30.72	2,114	81	71	31.18	2,228
пторинасо			48	27.74	1,327	70	49	28.16	1,384
Blacks and others	: 93 :	1,796	40	21.14	1,52/	7.0	77	20.10	.,50
DOI: 0110 -B- ()				17 (:	750	410	4.0	10 10	87
- 1 - 1	: 605	934	43	17.61	753	418	48	18.19 27.04	3,84
	: 760	4,624	93	26.84	2,488	343	142		
25-34	: 498	6,785	120	30.70	3,684	252	176	31.73	5,58
35-44	: 236	6,405	159	29.10	4,631	169	195	28.85	5,63
	: 180	5,460	146	27.35	3,980	122	186	28.41	5,27
	: 104	4,597	147	27.82	4,077	86	158	27.84	4,400
65 and over	: 108	2,575	79	24.64	1,938	88	88	24.63	2,16
	:								
	: 458	1,028	48	16.95	818	326	54	17.45	93
	: 603	4,965	106	26.85	2,846	280	160	26.85	4,29
	: 377	7,736	138	31.09	4,277	187	207	32.21	6,68
25 51	: 179	7,748	188	29.78	5,596	119	243	29.55	7,19
	: 127	6,586	181	27.74	5,032	89	225	28.85	6,49
45 54	: 82	4,932	148	29.11	4,300	67	161	28.90	4,65
	: 92	2,769	86	24.98	2,152	77	94	24.89	2,34
	:								
	: 147	640	26	21.51	550	92	28	23.34	64
	: 158	3,317	42	26.76	1,115	63	64	29.18	1,87
	: 121	3,811	65	28.14	1,829	65	85	28.37	2,40
	: 58	2,225	70	23.41	1,628	49			
95	: 53	2,791	60	24.55	1,484	34			
	: 22	2,791		24.33	1,404	19			
55-64 65 and over	: 22					11			
o) and over	:								
Household and migrant	:								
status: Household heads	: 1,046	6,876	139	29.96	4,151	584	200	30.22	6,057
Migratory	: 44	,				24			
Nonmigratory	: 1,003	6,907	138	30.21	4,182	560	200	30.50	6,106
Other household members	: : 1,446	2,434	68	23.13	1,579	895	82	23.51	1,92
Migratory	: 72	2,676	94	24.37	2,300	60	99	23.86	2,35
Nonmigratory	: 1,374	2,421	67	23.04	1,542	835	81	23.48	1,89
Years of education com- pleted by workers 25 and	:								
over:	. 1 126	5 999	131	29.05	3,799	717	169	29.43	4,98
All workers	: 1,126	5,888		29.03	4,217	140	153	29.62	4,54
0-4	: 159	4,593	143	28.68	3,949	217	163	28.98	4,73
5-8	: 296	5,116	138			113	195	28.17	5,48
9-11	: 165	5,860	160	27.65	4,410	160	154	30.39	4,67
12	: 308	6,333	111	29.82	3,303				
13 and over	: 198	7,417	118	29.69	3,504	88	204	30.35	6,19

^{-- =} base was fewer than 50,000 persons.

Appendix table 8--All hired farmworkers: Employment characteristics by average number of days worked and earnings, 1981

Characteristics	: Thousands : of	: Farm and		Farmwor		:	farmwork	did hire only	d
GHAT ACCEPTACTOR	: or : workers	: nonfarm : earnings	Days	Ear	nings	Thousands	Days		nings
	:	:	worked	Daily	:Annual	: of : : Workers :	worked	•	: Annua
	: Number	Dollars	Number		lars	Numb			lars
	: : 2,492	4,299	98	27.20	2,659	1,478	129	27.64	3,55
Primary employment status:	:				,	-,	127	27.04	3,33
Farmwork	: 796	6,720	218	29.35					
Hired farmwork	: 706	7,258	238	29.33	6,387	671	226	29.30	6,613
Without nonfarmwork	: 601	7,172	245	29.39	6,981	601	245	29.33	7,172
***.*	: 105	7,749	197		7,172	601	245	29.33	7,17
	: 90	2,494	62	29.86	5,882	_0			
	: 420	8,341		28.04	1,725	70	64	28.44	1,825
**** * * *	: 86	2,550	38 44	25.01	949	0			
	: 1,189			28.40	1,242	41			
77	: 199	1,378	43	20.44	872	766	47	20.54	961
	· 858	1,182	36	23.91	866	154	38	24.25	913
	. 050	1,307	44	18.60	809	516	49	18.41	894
	: 132 :	2,127	47	27.47	1,286	96	52	26.93	1,396
Residence, sex, and days of farmwork:	:								
There is an	:								
Fewer than 25		2,756	9	22.76	216	444	10	21.79	222
25-74	500	2,799	45	24.85	1,126	274	45	24.64	1,108
75–149	310	4,081	107	24.85	2,650	195	107	25.73	
150-249	281	6,669	198	29.84	5,908	206	201	30.12	2,742
250 and over	394	8,632	308	27.43	8,461	360	309	27.63	6,051 8,547
Nonfarm residence	2,083	4,266	88	27.80	2,436	1 170			
Fewer than 25 :		2,906	10	22.55	2,436	1,173	117	28.36	3,321
25-74 :		2,934	45	25.05		376	11	21.43	226
75-149 :		4,246	106	25.19	1,132	225	45	24.61	1,113
150-249		6,802	198		2,683	165	107	25.88	2,758
250 and over :		8,854	301	30.19 28.66	5,980 8,624	168 239	201 301	30.49 28.87	6,116
Males					0,02	237	301	20.07	8,686
Fewer than 25	650								
0	658	3,212	9	24.59	230	286	10	23.69	229
	390	3,001	46	24.60	1,132	190	46	24.00	1,104
150.040		4,343	108	24.47	2,640	150	108	25.19	2,727
050	254	6,618	198	29.65	5,858	184	201	29.79	5,978
250 and over :	369	8,733	308	27.81	8,554	336	308	28.02	8,640
Females									
Fewer than 25	312	1,792	10	10.01					
25-74	149	2,270	43	19.04	185	158	11	18.77	208
75 and over :	114	4,875	43 172	25.54 26.03	1,109 4,488	84 91	43 183	26.19 26.63	1,115
: igratory status and days		•	-		., 100	71	103	20.03	4,881
<u> </u>	115	3,995	112	24.37	2,728	83	130	23.77	3,080
Fewer than 25	24					13			
25-74 :	37					25			
75–149 :	12					7			
150 and over :	42					38			
Nonmigratory :	2,377	4,314	97	07.05	0				
Fewer than 25	945			27.35	2,656	1,395	129	27.87	3,585
25-149	799	2,751	9	22.70	213	430	10	21.51	214
150-249		3,305	68	24.99	1,705	437	72	25.50	1,824
0.00	253	6,755	199	30.09	5,980	182	202	30.53	6,162
250 and over :	379	8,710	309	27.63	8,534	346	310	27.90	8,642

Zeros appear where estimate was fewer than 500.

-- = base was fewer than 50,000 persons.

1/ Includes operating a farm and unpaid family labor.

Appendix table 9--All hired farmworkers: Regions and racial/ethnic groups by average number of days worked and earnings, 1981

	: : Thousands	: : Farm and	:	Farmwork	:		armwork	did hired only	
	: of	: nonfarm		Earni	ngs	Thousands:	Days	Earni	ngs
	: workers	: earnings	worked	: Daily :/		of : Workers :	worked	: Daily :	Annual
	: : Number	Dollars	Number	Dolla	rs	Numbe		Dolla	
	:	4,299	98	27.20	2,659	1,478	— 129	27.64	 3,557
11 workers	: 2,492 :	4,299	30	27.20	2,033	2,			
mada regrona.	: 00/	4,400	115	25.82	2,977	109	156	27.41	4,268
Northeast	: 204 : 190	4,457	117	25.41	2,967	100	157	26.88	4,234
Whites Hispanics	: 6					4			
Blacks and others	: 8					5			
North Central	: 688	4,025	75	26.92	2,019	350	98	27.38	2,694
Whites	: 672	4,043	75	26.84	2,018	342	99	27.35	2,09
Hispanics	: 8					3 5			
Blacks and others	: 8					_			
South	: 1,004	3,786	97	22.95	2,217	627 345	126 129	22.67 21.15	2,85
Whites	: 627	3,987	91	21.90	2,003	81	137	27.41	3,74
Hispanics	: 113	4,435	114	27.27	3,115 2,341	201	117	23.30	2,73
Blacks and others	: 265 :	3,036	101	23.13					
West	: 595	5,446	120	33.60	4,037	393	153 154	34.40 32.84	5,24
Whites	: 335	5,244	105	31.97	3,366	176 172	154	35.77	5,66
Hispanics	: 201	5,992	145	35.47 34.04	5,157 4,037	45	130		3,00
Blacks and others	: 59 :	4,738	119	34.04	4,037	7.7			
tandard Federal Regions:	: 60	4,547	100	22.56	2,246	29			
Whites	: 60	4,547	100	22.56	2,246	29			
Hispanics	: 0					0			
Blacks and others	: 0					0			
II	: : 101	4,295	120	28.66	3,450	52	146	32.14	4,70
Whites	: 87	4,401	124	28.18	3,506	44			
Hispanics	: 6					4 5			
Blacks and others	: 8					3			
III	: 119	3,744	123	17.84	2,193	76 68	176 185	17.42 17.79	3,06
Whites	: 106	4,019	128	18.18	2,318	0	103	17.75	3,20
Hispanics Blacks and Others	: 0					ğ			
						256	116	22.32	2,59
IV	: 567	3,450	89	22.38	2,000 1,720		112	21.14	2,37
Whites	: 347 : 18	3,630	80	21.38	1,720	18			
Hispanics Blacks and others	: 201	3,070	97	23.48	2,281	152	115	23.35	2,67
Blacks and Others	: 201								2,45
V	: 380	3,937	76	25.66	1,955	184 184	98 98	25.01 25.01	2,45
Whites	: 377	3,938	77	25.66	1,963	104	90	23.01	2,7.
Hispanics Blacks and others	: 3					ő			
Blacks and Orners	:						126	26.27	3,5
VI	: 384	4,590	105 99	26.45 25.80	2,783 2,560		136 138	24.71	3,4
Whites	: 229	4,784 4,775	99 111	29.38	3,274		136	29.96	4,0
Hispanics Blacks and others	: 102 : 53	3,385	111	23.49	2,800				
	: : 269	4,149	71	28.30	2,010	141	96	29.88	2,8
VII Whites	: 258	4,189	70	28.14	1,980	134	95	29.97	2,8
Hispanics	: 6					3			-
Blacks and others	: 6					4			-
VTTT	: : 107	4,742	99	27.18	2,701	L 59	143	27.55	3,9
Whites	: 98	4,697	102	26.87	2,751	1 55	145	27.16	3,9
Hispanics	: 5					3			_
Blacks and others	: 4					1			
IX	: 334	6,161	137	37.05	5,07	7 253	160	37.12	5,9
Whites	: 115	6,678	130	37.92	4,93	1 68	184	36.97	6,8
Hispanics	: 165	6,326	145	37.26	5,418	8 141	159	37.57	5,9
Blacks and others	: 54	4,545	126	34.40	4,33	4 43			-
x	172	3,888	90	26.73	2,40	7 96	121	28.72	3,4
Whites	: 148	4,018	84	28.02	2,36		118	31.14	3,6
Hispanics	: 23					22 1			_
Blacks and others	: 2					1			

Zeros appear where estimate was fewer than 500. -- = base was fewer than 50,000 persons.

Appendix table 10--Hired farmworkers who did farmwork and nonfarmwork: Demographic characteristics by average number of days worked and earnings, 1981

Observations	: Thousands	: Farm and	:	Farmwork	τ	: : .	Nonfarmwo	rk
Characteristics	: of : workers		Days	Earn	nings	Days	: Earn	ings
	:	: earnings	worked	Daily	Annual	worked	Daily	Annua1
	Number	Dollars	Number	<u>Do</u> 1	lars	Number	<u>Do1</u>	lars
All workers	1,014	5,381	53	25.63	1,350	125	32.18	4,03
Ethnic groups and sex:	:							
Whites	: 861	5,401	52	25.46	1,316	128	31.82	4,08
Hispanics	: 69	6,641	60	29.30	1,765	128	38.09	4,87
Blacks and others	: 84 :	4,149	57	24.00	1,362	91	30.66	2,78
Males	: : 773	5,921	60	26.05	1,564	128	34.00	4,35
Whites	: 652	5,948	60	25.94	1,548	131	33.67	4,40
Hispanics	: 60	7,019	63	29.86	1,867	130	39.71	5,15
Blacks and others	: 61	4,565	62	23.38	1,442	100	31.32	3,12
Females	: : 241	3,643	29	22.82	662	116	25.72	2.00
Whites	: 208	3,688	27	22.02	590	121	25.72	2,98
Hispanics	: 9				J90 	121	23.30	3,098
Blacks and others	: 23							
Sex and age (years):	:							
14-17	: 188	1,066	31	15.59	482	57	10.24	584
18-24	: 417	5,263	52	26.39	1,372	127	30.56	3,89
25-34	: 246	8,014	63	27.74	1,740	161	39.00	6,27
35-44	: 68	8,323	69	30.85	2,140	167	37.12	6,18
45-54	: 58	5,846	60	20.38	1,224	144	32.01	4,62
55-64	: 18						32.01	7,02.
65 and over	: 20 :							
Males	:							
14-17	: 132	1,246	34	15.01	518	66	10.96	729
18-24	: 323	5,546	59	26.86	1,596	123	32.13	3,950
25-34	: 190	8,773	69	27.76	1,909	165	41.62	6,864
35-44	: 60	8,861	77	31.17	2,405	170	37.90	6,456
45-54	: 38							
55-64 65 and over	: 15				~			
	: 15 :							
Females	:							
14-17 18-24	: 55	633	22	17.74	395	34	6.92	238
18-24 25-34	: 94	4,289	26	22.78	602	142	25.90	3,688
25-34 35-44	: 56	5,435	42	27.62	1,165	147	29.04	4,270
45-54	: 8 : 20							
55-64	: 20 : 3							
65 and over	: 4							
lousehold and migrant status:	:							
Household heads	: : 463	7,907	60	28.89	1,747	161	38.15	6 160
Migratory	: 20					101	30.13	6,160
Nonmigratory	: 443	7,922	60	28.98	1,749	161	38.30	6,173
Other household members	: : 551	3,258	46	22.04	1,016	95	23.64	2 241
Migratory	: 12						23.04	2,241
Nonmigratory	: 539	3,235	46	21.83	994	95	23.57	2,242
ears of education completed	:							
by workers 25 and over:	:							
All workers	: 409	7,480	63	27.23	1,725	154	37.26	5 700
0-4	: 19				1,723	154	31.20	5,755
5-8	: 79	6,160	67	26.63	1,772	134	32.72	4,388
9-11	: 52	6,664	83	25.03	2,089	123	37.06	4,575
12	: 149	8,115	65	28.36	1,831	171	36.74	6,284
13 and over	: 110	8,389	50	27.50	1,364	172	40.91	7,025

^{-- =} base was fewer than 50,000 persons.

Appendix table 11--Hired farmworkers who did farmwork and nonfarmwork: Employment characteristics by average number of days worked and earnings, 1981

	: Thousands	: : Farm and	:	Farmwork		: :	Nonfarmw	ork
Characteristics	: Thousands : of	: nonfarm	Davs	: Earn	Ings	Days	Earn	ings
GHALACLETIBLICS	: workers	: earnings	worked	Daily	Annual	worked	Daily	Annual
	: Number	Dollars	Number	<u>Doll</u>	ars	Number	<u>Do</u> 1	lars
All workers	: 1,014	5,381	53	25.63	1,350	125	32.18	4,031
Primary employment status:	:							
Farmwork	: 124	7,295	174	29.69	5,168	69	31.03	2,127
Hired farmwork	: 105	7,749	197	29.86	5,882	60	31.08	1,867
Without nonfarmwork	; 0							
With nonfarmwork	: 1,014	5,381	53	25.63	1,350	125	32.18	4,031
Other farmwork 1/	: 20							
Nonfarmwork	: 420	8,341	38	25.01	949	198	37.33	7,393
Unemployed	: 46							1 (01
Not in labor force	: 423	2,132	35	20.19	711	76	18.73	1,421
Keeping house	: 45							
Attending school	: 342	1,932	36	18.98	682	75	16.66	1,250
Other	: 36							
Residence, sex, and days of farmwork:	:							
All workers	:		•	00.00	211	142	33.04	4,682
Fewer than 25	: 526	4,893	9	23.69 25.06	1,145	117	29.10	3,40
25-74	: 264	4,550	46	23.38	2,493	111	34.60	3,85
75-149	: 115	6,345	107 190	29.03	5,509	82	34.99	2,88
150-249	: 74	8,389	190	29.03	3,309			-,
250 and over	: 34							
Nonfarm residence	: 910	5,485	50 9	26.10 23.58	1,294 208	129 144	32.43 33.16	4,19 4,78
Fewer than 25	: 483 : 240	4,990	45	25.47	1,149	118	29.44	3,48
25-74	: 240 : 102	4,637 6,652	106	24.08	2,562	117	35.02	4,09
75-149	: 102	8,878	190	29.22	5,565	93	35.77	3,31
150-249 250 and over	: 28							
	:							
Males	: 372	5,507	9	25.31	232	149	35.50	5,27
Fewer than 25 25-74	: 200	4,797	46	25.17	1,159	120	30.38	3,63
75-149	: 98	6,811	107	23.36	2,508		35.70	4,30
150-249	: 70	8,294	189	29.28	5,546		34.82	2,74
250 and over	: 33							
Females	:							
Fewer than 25	: 154	3,412	8	19.40	161		25.99	3,25
25-74	: 64	3,780	45	24.72	1,100		24.70	2,68
75 and over	: 22							
Migratory status and days of farmwork:	: : :							
Migratory	: 32			, 				
Fewer than 25	: 11							
25-74	: 12							
75-149	: 5							
150 and over	: 5	_						
Nonmigratory	981	5,349	52	25.56	1,334		32.15	4,01
Fewer than 25	: 515	4,869	9	23.81	212		32.97	4,65
25-149	: 363	5,087	64	24.31	1,561		30.77	3,52
150-249	: 71	8,288	191	28.88	5,507		34.56	2,78
250 and over	: 33							

Zeros appear where estimate was fewer than 500.

^{-- =} base was fewer than 50,000 persons.

^{1/} Includes operating a farm and unpaid family labor.

Appendix table 12--Hired farmworkers who did farmwork and nonfarmwork: Regions and racial/ethnic groups by average number of days worked and earnings, 1981

Characteristics	: Thousands	: Farm and	<u> </u>	Farmwork		: :	Nonfarmwo	rk
GHATACLETISCICS	: of : workers	: nonfarm : earnings	Days	: Earn		Dave	: Earn	ings
		: earnings	worked	Daily	Annual	worked	Daily	Annua
	Number	Dollars	Number	<u>Do1</u>	lars	Number	<u>Do</u> 1	lars
All workers	: 1,014	5,381	53	25.63	1,350	125	32.18	4,03
Census regions:	:							.,
Northeast	: 96	4,550	69	21.77	1,511	128	23.76	3,03
Whites	: 90	4,703	72	21.86	1,569	131	23.94	3,13
Hispanics Blacks and others	: 2							
bracks and others	: 3	~~						
North Central	: 338	5,403	51	26.01	1,320	123	33.10	
Whites	: 330	5,441	51	25.81	1,318	124	33.13	4,08 4,12
Hispanics Blacks and others	: 5							7,12
blacks and others	: 3 :	~-						
South	378	5,331	48	24.22	1,157	130	32.02	,
Whites	: 281	5,544	46	24.49	1,124	130	32.02	4,17 4,42
Hispanics	: 32				-,			7,42
Blacks and others	: 64 :	3,979	51	21.90	1,115	98	29.20	2,86
West	: 202	5,828	57	29.47	1 (00	110		
Whites	: 159	5,461	52	29.47	1,682	118 120	35.23 32.94	4,14 3,95
Hispanics	: 29				1,500	720	32.94	3,95
Blacks and others	: 14							
tandard Federal Regions:	:							
I	: 31							
Whites	: 31							
Hispanics	: 0							
Blacks and others	: 0							
II	: 48							
Whites	: 43							
Hispanics	: 2							
Blacks and others	: 3							
III	: 42							
Whites	: 38							
Hispanics	; 0	_						
Blacks and others	: 4							
IV	: : 211							
Whites	: 161	4,887 5,077	44 44	22.65	990	125	31.20	3,897
Hispanics	: 0	3,077	44	22.08	961	132	31.25	4,116
Blacks and others	: 50	4,271	44	24.47	1,081	103	31.01	3,190
v	:						54.01	3,170
Whites	: 196 : 193	5,331	55	26.75	1,484	121	31.83	3,847
Hispanics	: 193	5,352	56	26.74	1,494	121	31.81	3,858
Blacks and others	: 0							
***	:							
VI Whites	153	6,146	59	27.08	1,601	136	33.44	4,544
Hispanics	: 108 : 34	6,323	55	28.85	1,600	139	34.04	4,723
Blacks and others	: 11							
***	:					~-		
VII	: 128	5,577	44	24.50	1,073	128	35.15	4,504
Whites Hispanics	: 123	5,654	44	23.82	1,038	131	35.25	4,616
W1 1 4 14	: 3 : 2							
	:							
	: 48							
Whites Hispanics	: 43							
Hispanics Blacks and others	: 2							
und others	3							
	: 81	6,825	65	36.51	2,366	107	41.79	4 450
Whites	: 47	'			2,300	107	41./9	4,459
	: 24							
	: 10							
	: 76	4,389	51	20.75	1 050	110		
Whites	: 74	4,354	51	20.75	1,052	119 120	28.09 27.53	3,337
	: 1						-/- 33	3,293
Blacks and others	: 1							

Zeros appear where estimate was fewer than 500. -- = base was fewer than 50,000 persons.

Appendix table 13--All hired farmworkers: Percentage distribution of daily farm earnings by selected characteristics and regions, 1981

	Thousands		00 00 to 0	11 00 tc-	Dally far	m earnings \$17.00 to:	20.00 to:	23.00 to:	\$26.00		
Characteristics	of	: Fewer :: than \$8.00:	\$8.00 to:\$	11.00 to:	\$14.00 Eo:	\$19.99	\$22.99 :	\$25.99	and over	earning	
	: WOIKEIS	· CHAII \$0.00.	310:00 1	*13.33						Dollar	
	: Number				Percent-						
11 workers	2,492	8	10	5	8	.4	. 12	11	42	23.83	
thnic groups and sex:			••	6	10	4	12	10	39	21.79	
	: 1,824	9 3	10 7	2	1	7	8	ii	61	29.46	
	: 328 : 340	6	13	6	9	2	11	15	39	23.92	
	: : 1,918	8	9	5	8	4	11 11	9	45 42	24.64	
Whites	: 1,434	10	9	5 2	9	6	7	10	68	30.30	
Hispanics Blacks and others	: 237 : 247	3 6	14	7	8	1	11 .	12	41	24.19	
Females	: : 574	. 5	14	7	9	-6	15	14	31	20.44	
Whites	: 390	6	14	8	10	.6	16	13 12	28 44	20.21	
Hispanics	: 90	1	18	3 5	2 11	10 2	10 11	21	33	23.57	
Blacks and others	: 93 :	4	11 .	5	11				-		
rimary employment status: Farmwork	: : 796	6	6	3	4	3	10	10	58	28.02	
Hired farmwork	706	6	6	3	4	2	9	10	60 59	28.40 28.45	
Without nonfarmwork	: 601	7	6	4	4 5	,2 3	8 11	10 7	61	28.11	
With nonfarmwork	: 105	4	9 5	0 4	4	5	23	7	44	23.52	
Other farmwork 1/	: 90 : 420	8 5	12	4	7	5	14	12	41	23.77	
Nonfarmwork Unemployed	: 420	4	7	4	12	4	14	.7	48	25.33	
Not in labor force	: 1,189	10	13	7	11	- 5	12	11	31 34	20.15	
Keeping house	: 199	4	13	8	6	9 4	12 11	13 11	27	19.50	
Attending school Other	: 858 : 132	12 2	14 9	7 3	13 9	4	12	8	53	26.66	
Age (years):	: 605	13	15	7	15	5	11	12	22	17.03	
14-17 18-24	: 760	7	8	5	8	4	13	8	46	24.83	
25-34	: 498	4	9	3	5	. 4	12	11	54	27.48	
35-44	: 236	4	13	4	6	4	10 9	7 16	52 41	24.49	
45-54	: 180	9	10 7	5 4	3 4	, 6 1	14	19	46	25.44	
55-64 65 and over	: 104 : 108	5 7	9	14	5	ō	11	10	43	24.76	
Days of farmwork:	:					_	14	11	29	20.09	
Fewer than 25	: 969	9	14	7	12	5 5	12	11	43	24.27	
25-74	: 538	5 7	9 12	6 3	9 5	-4	12	14	44	25.02	
75-149	: 310 : 281	6	7	4	4	3	6	9	61	29.57	
150-249 250 and are	: 394	10	6	4	5	3	8	9	56	27.48	
Household and migrant	:										
status:	: : 1,046	. 6	8	4	5	3	12	10	54	27.5	
Household heads Migratory	: 1,046	~-									
Nonmigratory	: 1,003	6	8	3	5	. 3	11	10	54	27.6	
Other household members	: 1,446	. 9	12	6	11	6	12	11	34	20.4	
Migratory	: 72	15	9	7 6	7 11	5 6	7 12	13	38 33	20.3	
Nonmigratory	: 1,374 :	. 8	12	ь	11	0	12	•••	33		
Census regions: Northeast	: 204	14	9	6	10	7	12	7	35	20.1	
Whites	: 190	16	10	6	11	5	10	7	35	20.0	
Hispanics	: 6									_	
Blacks and others	: 8								40	23.6	
North Central	: 688	6 6	12 12	. 6	9 9	5 5	11 11	13 13	39	23.3	
Whites	: 672 : 8		12							-	
Hispanics Blacks and others	: 8		,	`						-	
South	: : 1,004	8	12	6	11	5	14	11	33	20.7	
Whites	: 627	10	10	6	12	.5	15 15	10 11	32 41	22.8	
Hispanics Blacks and others	: 113 : 265	1 6	17 16	2 6	0 11	13	11	15	32	21.9	
West	: : 595	6	6	4	3	2	. 8	8 5	62 54	29.9 27.5	
Whites	: 335	8	8	5	5 1	3 2	12 4	5 11	73	32.6	
Hispanics	: 201	. 4	2 6	3 10	1	.0	1	13	64	30.1	
Blacks and others	: 59	0	0	10	1		-				

Continued--

Appendix table 13--All hired farmworkers: Percentage distribution of daily farm earnings by selected characteristics and regions, 1981--continued

	: Thousands				Daily f	arm earning	18			
Characteristics	: of	: Fewer	:\$8.00 to:	\$11.00 t	o:\$14.00 t	0:\$17.00 to	1.820 00 to	:\$23.00 t	o: \$26.00	- Median
	: Workers	:than \$8.	00: \$10.00 :	\$13.99	: \$16.99	: \$19.99	\$22.99	: \$25.99	: and ove	r: earning
	: Number				Percen	t				Dollars
Standard Federal Regions:	:				-	-				DOLLARS
I	: 60	14	8							
Whites	: 60	14	å	4	13 13	8	8	11	34	20.25
Hispanics	: 0	14	•	4	13	8	8	11	34	20.25
Blacks and others	: 0									
II	: : 101									
Whites	: 87	9	12	6	10	9	15	3	36	20,12
Hispanics	: 6	10	14	7	11	5	10	4	37	20.03
Blacks and others	: 8									
III	: 119	20	6	10	19	2	11	6	27	16.09
Whites	: 106	21	4	11	18	2	9	5	30	16.19
Hispanics	: 0					-	,	,	30	10.19
Blacks and others	: 13									
IV	: 567	9	12	6	11	-				
Whites	: 347	11	10	5	11	5	14	12	32	20.42
Hispanics	: 18				12	6	15	10	31	20.26
Blacks and others	: 201	5	16	7	11	2	10	16	33	21.89
ν .	: 380	_						10	33	21.09
Whites	: 377	8	14	7	11	3	7	15	35	21.58
Hispanics	: 3//	8	15	7	11	3	7	15	34	21.07
Blacks and others	: 0									
VI	:									
Whites	: 384	5	14	4	6	5	14	11	39	22.73
Hispanics	: 229	6	11	6	9	3	16	11	37	21.63
Blacks and others	: 102	2	19	1	0	13	11	12	43	24.34
bracks and others	: 53	9	17	5	6	2	11	13	37	22.75
VII	: 269	4	8	3	8	7				
Whites	: 258	4	9	3	8	7	15	11	44	24.58
Hispanics	; 6						16	10	43	24.10
Blacks and others	: 6									
	:									
VIII	: 107	8	10	5	8	3	11	9	47	24.80
	: 98	7	11	5	8	3	12	í	47	24.54
Hispanics	: 5		~							24.34
	: 4									
	: 334	4	3	4	1	,		_		
	: 115	5	3	5	0	1	. 8	6	74	33.47
	: 165	2	2	2	1	2	15	2	68	34.35
	: 54	6	5	9	0	0	5 1	5 14	80 66	35.64
	:		-	-	-	Ü		14	66	31.03
and the second s	: 172	11	10	4	5	3	9	13	45	25.02
	: 148	11	10	4	6	3	10	6	48	24.94
	: 23									
Diacks and Others	: 2									

Zeros appear where the estimate was fewer than 500.

-- = base was fewer than 50,000 persons.

I/ Includes operating a farm and unpaid family labor.

Appendix table 14--All hired farmworkers: Percentage distribution of total annual earnings by selected characteristics and regions, 1981

	Thousands	3:			Total ann	ual earning	38			Median
Characteristics	of	: Fewer :than \$500	:\$500 to	:\$1,000 to	:\$2,500 to : \$3,999	:\$4,000 to	:\$5,500 to	s:\$7,500 t : \$9,999	o: \$10,000: and over:	eerninge
				, <u>, , , , , , , , , , , , , , , , , , </u>	Percen					Dollars
All workers	2,492	22	10	18	11	7	10	9	13	2,484
Sthnic groups and sex:	:					_	_		1,1	2 215
Whites	1,824	23	11	18	11 18	7 6	9 12	8 15	14 15	2,315 3,914
Hispanics Blacks and others	: 328 : 340	13 24	12	16 23	10	5	11	ii	5	1,656
	: : 1,918	18	9	18	11	7	10	11	15	3,053
	: 1,434	20	10	18	10	7	9 15	9 19	16 20	2,682 6,288
Hispanics Blacks and others	: 237 : 247	6 17	4 14	13 20	17 12	6 6	13	13	6	2,512
	: : 574	34	12	20	11	7	6	4	5	1,197
Whites	390	32	. 14	18	11	8	. 7	4 5	6 3	1,266
Hispanics	: 90 : 93	34 43	4 9	24 29	20 4	6 2	6 5	5	2	789
Blacks and others	:	43	. ,		·					
Primary employment status: Farmwork	796	6	3	11	12	9	18	19	21 22	6,504 7,138
Hired farmwork	: 706	1	2	11	13 13	10 9	20 20	22 21	22	7,130
Without nonfarmwork With nonfarmwork	: 601 : 105	1	3	11 10	12	14	17	28	20	7,415
	: 90	46	8	16	8	5	8 -	1	9	742
Nonfarmwork	: 420	. 0	2	8	16	10	16 10	14 0	34 4	7,325 1,795
Unemployed	: 86	20 40	16 17	27 26	15 9	7	10	1	ő	726
	: 1,189 : 199	41	14	30	11	4	0	ō	0	839
Attending school	: 858	42	18	25	8	4	2	1	0	679
	: 132	29	17	29	14	5	1	2	3	1,159
Age (years):	: 605	50	19	21	6	2	1	0	0	499
14-17 18-24	: 760	12	9	23	16	9	9	10	12	3,172
25-34	: 498	. 9	4	13	11	7	14	17	25 23	6,330 6,058
35-44	: 236	12 12	5 5	13 17	11 15	8 10	16 13	13 9	20	4,079
45-54 55-64	: 180 : 104	17	. 5	14	9	8	27	12	7	4,904
65 and over	: 108	34	14	17	10	9	5	9	2	1,195
Days of farmwork:	: 969	50	11	10	7	5	4	3	10	498
Fewer than 25 25-74	: 538	10	20	39	12	. 4	4	3	7	1,532
75-149	: 310	0	8	27	31	13	9	7	5	3,111
150-249	: 281	0	1	12 9	11 7	16 5	27 19	20 26	13 33	6,331 8,267
250 and over	394	0	1	,	,		.,	20	-	.,,,
Household and migrant status:	:									
Household heads	: 1,046	9	6	11	12	6	14	15	26	6,383
Migratory Nonmigratory	: 44	9	6	12	12	6	14	15	27	6,418
Other household members	: : 1,446	31	13	23	11	8	6	5	3	1,232
Migratory	: 72	22	23	20	. 8	11 7	13 6	0 5	3	1,29
Nonmigratory	: 1,374 :	32	13	24	11	:	v	,	•	•,
Census regions: Northeast	: : 204	19	11	22	10	7	9	9	14	2,45
Whites	: 190	20	9	22	10	6	9	10	14	2,47
Hispanics Blacks and others	: 6									
North Central	: : 688	28	12	16	9	8	7	7	13	2,03
Whites	: 672	28	12	16	9	8	7	7	13	2,01
Hispanics Blacks and others	: 8						==		==	
	: 1,004	24	10	19	. 11	7	12	10	8	2,21
South Whites	: 627	23	9	20	- 10	8	11	8	11	2,24
Hispanics	: 113	26	2	10	15	5	16	23	3.	3,57
Blacks and others	: 265	24	14	22	11	6	11	9	3	1,56
West	: : 595	13	8		15	5	9	11	20	3,52
Whites	: 335	15	12	16	15	6	. 8	. 8	20	3,36 4,22
Hispanics	: 201	. 7	4		19 3	6 1	10 9	12 20	13	2,44
Blacks and others	: 59	22	4	- 29	3		,			

Appendix table 14--All hired farmworkers: Percentage distribution of total annual earnings by selected characteristics and regions, 1981--continued

_	: Thousand				Total ann	ual earnings				
Characteristics	: of : workers	: Fewer :than \$500	:\$500 to : \$999	:\$1,000 t : \$2,499	0:52 500 to	:\$4,000 to : \$5,499	. 05 EOO A	o:\$7,500 to	\$10,000	Median earnings
	: Number						. 47,433	• 99,339	and over	
Standard Federal Regions:	: Number	*********	,		Percen	<u>t</u>				Dollars
I	: 60	17	8	24	18	4	5	6	18	0 (0)
Whites	: 60	17	8	24	18	i i	5	6	18	2,621
Hispanics	: 0					•	,	0	16	2,621
Blacks and others	: 0									
II	: 101	81	15	21	6	_				
Whites	: 87	21	11	21	5	6	11	10	13	2,299
Hispanics	: 6					6	13	11	12	2,356
Blacks and others	: 8									
III	: : 119									
Whites	: 106	24 23	4	24	13	5	11	11	7	2,220
Hispanics	: 106	23	5	21	12	6	13	12	8	2,527
Blacks and others	: 13									
	:									
IV	: 567	23	12	20	13	7	12	6	7	1 000
Whites	: 347	23	11	21	10	8	13	5	10	1,928
	: 18									2,083
Blacks and others	201	25	15	19	12	7	11	8	3	1,522
_	380	30	11	17	7	_				.,,,,,
	: 377	30	12	17	7	8	8	7	13	1,808
Hispanics	: 3					8	8	7	13	1,808
	: 0									
	: : 384									
	: 299	24 22	8	16	8	7	10	16	11	3,014
***	: 102	22	9	17	9	9	7	12	15	3,225
	: 53	29	2	10	7	6	16	23	7	4,426
	 :	24	12	23	5	5	14	16	1	1,625
	: 269	26	12	13	12	9	6	7	14	0.016
	258	26	13	14	11	ģ	6	8	15	2,246 2,158
	: 6								13	2,130
	: 6 :				~-					
	: : 107	17	7			_				
Whites		18	7	18 19	18	6	10	8	15	3,363
Hispanics				19	17	6	11	9	14	3,332
Blacks and others	: 4									
IX										
Whites	334	10	6	20	12	5	10	14	23	4,941
Hispanics	115 165	10	10	14	16	5	9	9	28	4,926
Blacks and others		6 22	5 3	20	13	7	11	14	25	5,366
:		22	3	32	0	1	10	22	10	2,217
X :		18	14	19	19	5	7	6	12	2 410
Whites :		18	16	19	13	6	7	7	13	2,410
Hispanics									13	2,029
Blacks and others :	2									

Zeros appear where estimate was fewer than 500.
-- = base was fewer than 50,000 persons.
1/ Includes operating a farm and unpaid family labor.

Appendix table 15--All hired farmworkers: Percentage distribution of annual farm earnings by selected characteristics and regions, 1981

	Thousand	s:			Annual fa	arm earnings	.AE 500	. 67 500 +	\$10,000	Median
Characteristics	of	: Fewer :than \$500	:\$500 to	:\$1,000 to	:\$2,500 to : \$3,999	: \$4,000 to : \$5,499	:\$5,500 to	: \$9,999 :	and over:	earnings
	:	.than \$500	. 9777		Percei					Dollars
		39	12	17	7	5	6	6	6	923
All Workers	: 2,492 :	39	12	17	,	,				
	: : 1,824	44	12	17	6	5 5	5 10	4 11	6 12	694 2,872
Hispanics Blacks and others	: 328 : 340	18 33	10 15	15 19	16 5	4	10	9	3	1,117
	: : 1,918	34	12	17	8	5 5	7 6	7 5	8	1,206
Whites Hispanics	: 1,434 : 237	39 12	12 11	18 11	16	6	12	14	15 3	3,581 1,568
Blacks and others	: 247	26	16	17	7	5	12	12	-	
Females	: 574 : 390	55 60	12 13	17 14	6 4	3	4	2 1	1 1	397 342
Whites Hispanics	: 390	35	9	24	16	4	6	3	3 2	1,177 347
Blacks and others	: 93 :	51	12	26	1	1	5	3	2	347
Primary employment status:	: 796	7	4	12	12	10	18	18	19	6,106
Farmwork Hired farmwork	: 706	1	3	12	12	10	20 20	20 21	21 23	6,654 7,079
Without nonfarmwork With nonfarmwork	: 601 : 105	1	3 4	11 20	13 10	18	20	14	12	5,172
Other farmwork 1/	: 90	55	8	15	8	4	4	1	5 0	415 397
Nonfarmwork	: 420 : 86	56 43	15 18	17 22	5 9	4	5	0	ō	676
Unemployed Not in labor force	: 1,189	43 54	17	19	5	2	1	0	0	426
Keeping house	: 199	50	17	25	6 4	1 2	0 1	0	0	512 408
Attending school Other	: 858 : 132	57 43	18 13	18 22	13	4	i	ŏ	Ö	718
Age (years):	:		17	15	5	2	0	0	0	363
14-17 18-24	: 605 : 706	60 37	17	22	8	5	5	5	6	1,008
25-34	: 498	31	8	17	. 8	6	10 13	11 9	9 15	1,823 3,096
35-44	: 236 : 180	23 26	12 13	12 16	11 8	6 8	8	8	13	1,674
45-54 55-64	: 104	23	7	11	6	8	26	10	6	3,895 606
65 and over	: 108	44	11	15	9	6	2	6	1	000
Days of farmwork: Fewer than 25	: 969	91	8	1	0	0	0	0	0	140 1,000
25-74	: 538	16	34	46 30	3 35	0 14	0	0	0	2,536
75-149	: 310 : 281	1	13 1	13	12	- 19	28	15	10	5,643
150-249 250 and over	: 394	ő	î	9	7	6	19	26	32	8,116
Household and migrant	:									
status: Household heads	: 1,046	28	10	13	9	5	10	10	13	2,059
Migratory	: 44 : 1,003	29	10	13	9	5	10	10	13	2,059
Nonmigratory	:	47	14		7	5	4	3	2	558
Other household members Migratory	: 1,446 : 72	26	20	19	8	12	14	0	0	1,144 527
Nonmigratory	: 1,374	48	14	20	7	4	3	3	2	327
Census regions: Northeast	: : 204	34	14	21	6	3	4	7	10	1,104
Whites	: 190	35	13		7	2	4	8	10	1,143
Hispanics Blacks and others	: 6									
North Central	: 688	49	12	14	6	5	5 4	3	4 5	508 505
Whites	: 672	49	12		6	5				
Hispanics Blacks and others	: 8									
South	: 1,004	40	14		6	5 6	8 6	5 3	2	796 689
Whites Hispanics	: 627 : 113	44 35	14	19	13	5	11	11	3	1,882
Blacks and others	: 265		16		7	5	10	8	1	1,035
West	: 595 : 335		10		11 8	4	7 5	9 6	13 11	2,026 1,149
Whites Hispanics	: 201	9		19	18	5	10	12 20	17 9	3,256 1,620
Blacks and others	: 59	24	14	4 18	2	1	9	20	-	
									(Continued

Appendix table 15--All hired farmworkers: Percentage distribution of annual farm earnings by selected characteristics and regions, 1981--continued

	:Thousands	3:			Annual fa	rm earnings				
Characteristics	: of : workers	: Fewer :than \$500	:\$500 to	:\$1,000 to	:\$2,500 to	:\$4,000 to	: \$5,500 to	o:\$7,500 to	: \$10,00	Median earning
	1							: \$9,999	and ove	er:
	: Number				Percen	t				Dollars
tandard Federal Regions:	;									
1	: 60	35	11	26	10	4	3	6	4	1,228
Whites	: 60	35	11	26	10	4	3	6	4	1,228
Hispanics	: 0						-	•	-	1,220
Blacks and others	: 0									
II	: 101	30	19	18						
Whites	: 87	31	17	18	4	4	6	8	13	1,173
Hispanics	: 6			10		2	7	9	12	1,179
Blacks and others	: 8									
	:									
III	: 119	44	9	21	9	1	5	6	5	720
Whites	: 106	43	10	19	9 .	i	5	7	5	715
Hispanics	: 0						-	•	,	/13
Blacks and others	: 13									
IV	: : 567	40								
Whites	: 347	40 46	16	18	7	5	7	4	2	786
Hispanics	: 18	46	16	18	4	6	6	2	2	567
Blacks and others	201	35	16	19	7					
and delices	. 201	33	10	19	7	5	10	7	1	918
V	: 380	49	12	17	6	3	5		_	
Whites	: 377	50	11	17	6	3	5	2	5	502
Hispanics	: 3							2	5	498
	: 0									
	:									
	: 384	38	12	16	5	6	8	8	5	957
	: 229 : 102	40	11	19	6	6	6	6	6	915
	: 102 : 53	40	10	9	5	6	10	12	6	1,033
	: 33	28	18	14	5	5	13	13	0	1,075
	. 269	51	12	10		_	_			
	: 258	52	13	10	6 6	7 7	4	4	4	494
Hispanics	: 6				~~		4	4	4	491
	: 6									
	:									
	: 107	37	13	16	9	5	7	6	6	1,047
	98	36	12	17	8	6	7	ž	5	1,157
	: 5 : 4				~-					
	: 4 :			~-						
	334	18	9	16		-	_			
	: 115	31	8	16 11	11 11	5	8	13	18	3,014
Hispanics		7	9	11	11	6 6	.3	.8	20	2,279
Blacks and others		22	11	19	14	1	11 10	13 22	18	3,885
			**	17		1	10	22	9	2,217
X		39	12	19	12	3	6	3	6	991
Whites		43	13	19	7	4	6	4	6	991 876
Hispanics										3/6
Blacks and others	2									

Zeros appear where estimate was fewer than 500.
--- = base was fewer than 50,000 persons.
1/ Includes operating a farm and unpaid family labor.

Appendix table 16--Hired farmworkers who did farmwork and nonfarmwork: Percentage distribution of annual nonfarm earnings by selected characteristics and regions, 1981

			rected c	maracteris	tics and re					
	: Thousand: : of	Fewer			o:\$2,500 to	nfarm earn1 :\$4,000 to		:\$7,500 to	\$10,000	Median
	:	:than \$500	: \$999	: \$2,499	: \$3,999		: \$7,499	: \$9,999	:and over:	
	: Number				Percent	•			*****	Dollars
All workers	: 1,014 :	26	10	17	13	7	7	5	15	2,128
Ethnic groups and sex: Whites	: : 861	25	9	18	13	8	7	4	15	2,212
Hispanics Blacks and others	: 69 : 84	0 34	16 16	16 20	9 11	12 4	3 7	15 1	14 8	3,754 1,173
Males	: : 773	23	11	17	14	6	8	5	17	2,353
	: 652 : 60	23 16	10 18	18 4	14 10	6	-8 18	4 13	17 18	2,363 4,044
	: 61	33	17	14	15	3	7	1	11	957
	: 241 : 208	33 33	8 7	19 17	11 12	13 14	4 5	5 5	7 8	1,353 1,376
Hispanics	: 9									
Blacks and others	: 23									
Primary employment status: Farmwork	: 124	29	16	22	23	3	1	0	5	1,296
	: 105 : 0	33	17	20	24	3	2	0	2	1,084
	: 105 : 20	33	17	20	24	3	2	0	2	1,084
Nonfarmwork Unemployed	: 420 : 46	- -	4 	11	15	12	13	11	32	6,313
Not in labor force Keeping house	: 423 : 45	47	14	20	10				1	567
Attending school Other	: 342 : 36	50	14	19	9	4	4	1	_ _	494
Age (years):	:									
14-17	: 188 : 417	72 17	11 13	14 22	1 16	2 8	1 9	0 5	0 11	253 2,277
25-34	: 246 : 68	14 11	6 5	14 10	14 13	8	9 12	6 19	30 21	4,036 5,905
	: 58 : 18	7	9	18	26	12	6	1	20	3,024
65 and over	: 20									
Days of farmwork: Fewer than 25	: 526	24	10	14	11	10	7	5	19	2,524
	: 264 : 115	27 19	9 12	22 19	13 16	4 7	7 15	6 3	12 10	1,703 2,704
150-249 250 and over	: 74 : 34	31	13	17	19	4	7	3	7	1,811
Household and migrant	:									
status: Household heads	: 463	11	10	14	13	6	9	9	27	4,049
Migratory Nonmigratory	: 20 : 443	11	10	14	13		- <u>-</u> 9	9	27	4,039
Other household members	: 551	38	10	20	13	8	6	2	4	1,125
Migratory Nonmigratory	: 12	 37	11	20	13	- <u>-</u>		1		1,162
Census regions:	: 337	3,	**	20	15	v	Ÿ	•	,	1,102
Northeast Whites	: 96 : 90	28 26	6 6	20 21	18 17	12 12	8 8	1 2	7 8	2,158 2,187
Hispanics Blacks and others	: 2									
	:	28	11	17	11	7		4	16	1,950
North Central Whites	: 338 : 330	28	11	17	11	7	6 6	4	16	1,981
Hispanics Blacks and others	: 5									
South	: 378	23	9	17	11	9	10	7	13	2,441
Whites Hispanics	: 281 : 32	22	7	18	12	10	8	7	16 	2,584
Blacks and others	: 64	29	19	19	11	6	9	0	7	1,215
West Whites	: 202 : 159	25 25	13 12	15 17	17 19	3	5 6	2 2	19 16	1,535 1,821
Hispanics Blacks and others	: 29 : 14									

Continued--

Appendix table 16--Hired farmworkers who did farmwork and nonfarmwork: Percentage distribution of annual nonfarm earnings by selected characteristics and regions, 1981--continued

	: Thousand	g:			Annual no	nfarm earn:	ings			Median
Characteristics	: of	: Fewer :than \$500	:\$500 to	:\$1,000 to	:\$2,500 to	:\$4,000 to	:\$5,500 to	s:\$7,500 to	o: \$10,000	Median
	: WOLKELS	· Chan \$500	. 3999	\$2,499	: \$3,999	: \$5,499	: \$7,499	: \$9,999	:and over	:
	: Number				Percen	t				Dollars
Standard Federal Regions:						-				
I	: 31									
Whites	: 31									
Hispanics	: 0									
Blacks and others	: 0									
II	:									
Whites	: 48 : 43									
Hispanics										
Blacks and others	: 2									
Blacks and Others	: 3									
III	: 42									
Whites	: 38									
Hispanics	: 0									
Blacks and others	: 4									
IV	: 211	23	8	22	12	11	7	2		
Whites	: 161	21	6	23	12	12	7	3	15	2,098
Hispanics	; 0		•	23	12	12	,	3	16	2,462
Blacks and others	: 50	27	16	20	13	7	7	0	9	1,400
v	: 196	20								-
•	: 193	29 28	12 12	15	13	6	7	5	14	1,999
	: 193	28	12	15	14	6	7	5	14	1,999
	: 0									
	:									
	: 153	27	8	10	12	8	11	11	12	2,968
	: 108	29	6	9	15	10	5	9	17	2,910
	: 34		-~							
	: 11									
VII	: 128	26	9	21	8	9	4	3	20	1,567
	: 123	27	8	20	8	9	4	4	21	1,587
	: 3									1,507
	: 2									
	· : 48	22	11	13	20	2	8	4	10	
Whites	: 43	22	12	15	18	3	9	3	19 18	
Hispanics	: 2								18	
	: 3	'								
	: : 81	19	22	14	12	•	,			
	: 47				12	2	6	2	23	1,340
	: 24									
Blacks and others	: 10									
	: : 76	22	-	00			_			
	: 76	32 33	7	20	20	3	3	3	14	1,531
	: /4	33	7	20	18	3	3	3	13	1,434
	. 1 : 1									
proced and orners	. 1									

Zeros appear where base was fewer than 500.
-- = base was fewer than 50,000 persons.
1/ Includes operating a farm and unpaid family labor.

Appendix table 17--Hired farmworker estimates: A comparison using 1970 and 1980 census weights, 1981

	:	; ;			
Characteristics	19	70 :	19	980	Difference, 1980 minus
	Number	Distribution	Number	Distribution	1970 :
	Thousands	Percent	Thousands	Percent	Thousands
All workers $\underline{1}/$	2,423	100	2,492	100	69
Racial/ethnic groups:	:				
Whites	1,794	74	1,824	73	30
	312	13	328	13	16
	: 317	13	340	14	23
Primary employment	:				
status:	:				
Farmwork	: 768	32	796	32	28
	: 680	28	706	28	26
Without farmwork		24	601	24	23
	: 101	4	105	4	4
	: 89	4	90	4	1
	: 410	17	420	17	10
	: 83	3	86	3	3
	:	. •		_	
	: 1,161	48	1,189	48	28
	: 192	8	199	8	7
	: 840	35	858	34	18
	: 128	5	132	5	4
Age (years):	:				
14-17	• • 594	25	605	24	11
	· 737	30	760	31	23
	: 476	20	498	20	22
	: 231	10	236	9	5
	: 178	7	180	. 7	2
	: 101	4	104	4	3
	: 105	4	108	4	3
Migratory status:	:				
Migratory status:	: 112	5	115	5	3
	: 2,311	95	2,377	95	66
nonmigratory	. 4,311	9.5	4,317	73	00
Census Region:	:				
Northeast	: 205	8	204	8	-1
North Central	: 692	29	688	28	-4
South	: 963	40	1,004	40	41
West	: 562	23	595	24	33
	<u>:</u>				Continued-

Appendix table 17--Hired farmworker estimates: A comparison using 1970 and 1980 census weights, 1981--continued

	:					
Characteristics	:	19	970	19	980	Difference, 1980 minus
	: :	Number	Distribution	Number	Distribution	1970
		Thousands	Percent	Thousands	Percent	Thousands
Days of farmwork:	:					
Fewer than 25	:	949	39	969	39	20
25-74	٠:	520	21	538	22	18
75-149	:	303	13	310	12	7
150-249	:	270	11	281	11	11
250 and over	:	380	16	394	16	14

 $[\]frac{1}{2}/$ Numbers and percentages may not add to totals due to rounding. Includes operating a farm and unpaid family labor.

APPENDIX II: SOURCE AND RELI-ABILITY OF ESTIMATES Estimates in this report are based on data obtained in December 1981 from supplementary questions in the CPS of the Bureau of the Census.

Sampling Procedures and Questionnaire Design

The CPS sample was initially selected from 1970 census files and is updated periodically to reflect new home construction. This sample includes 620 areas comprising 1,113 counties and independent cities in each State and the District of Columbia, but excludes Puerto Rico and other U.S. territories and possessions. Trained interviewers collected the information from approximately 58,000 U.S. households. The supplementary questions on the December survey were asked of persons 14 years of age or older who performed farmwork for wages or salary during 1981. Questions concerned the number of days of farmwork for wage or salary, migratory status, hired nonfarmwork and wages, principal employment status in 1981, residence, and other matters. Persons performing hired farmwork during 1981 but who died, entered the armed forces, or were no longer in the civilian noninstitutional population for other reasons were not included. Also, foreign nationals who did hired farmwork in this country and returned to their homes before the field collection were not included.

The estimating procedure used for the CPS data involves the expansion of the sample results to independent estimates of the U.S. civilian noninstitutional population by age, race, and sex. These independent estimates are based on statistics from the 1980 Census of Population; statistics on births, deaths, immigration, and emigration; and statistics on the number of people in the armed forces.

Reliability of the Estimates

Since the CPS estimates in this report are based on a sample, they may differ somewhat from the figures that would have been obtained from a complete census even if it had been taken using the same schedules, instructions, and enumerators. There are two types of errors possible in an estimate based on a sample survey—sampling and nonsampling. Sampling standard errors are provided for data in this report, but the extent of nonsampling error is unknown. Consequently, particular care should be exercised in the interpretation of figures based on a relatively small number of cases or on small differences among estimates.

Nonsampling Variability

As in any survey work, results are subject to errors of response and nonreporting in addition to sampling variability. Nonsampling errors can be attributed to many sources. A partial list would include inability to obtain information about all cases in the sample, definitional difficulties, differences in the interpretation of questions, respondents' inability or

⁶ For a detailed explanation of CPS sampling procedures, see The Current Population Survey-A Report on Methodology, U.S. Bureau of the Census, Paper 7, U.S. Govt. Print. Off., 1963.

unwillingness to provide correct information, inability of respondents to recall information, mistakes made in recording or coding the data, mistakes made in processing data, mistakes made in estimating values of missing data, and failure to represent all units in the sample.

Undercoverage in the CPS results from missed housing units and missed persons within sampled households. Overall undercoverage, as compared to the level of the 1980 decennial census, is about 7 percent. CPS undercoverage varies with age, sex, and race. Generally, undercoverage is larger for males than females and for blacks and other races than for whites. Ratio estimation to independent age-sex-race population controls partially corrects for the bias due to survey undercoverage. However, biases exist in the estimates to the extent that missed persons in missed households or missed persons in interviewed households have different characteristics than interviewed persons in the same age-sex-race group. Further, the independent population controls used have not been adjusted for undercoverage in the 1980 census.

Sampling Variability

Since the size of most nonsampling errors is unknown, the reliability of an estimate is described only in terms of standard errors. These are primarily measures of sampling variability; that is, the variations that might occur by chance because a sample, rather than the whole of the population, is surveyed. As calculated for this report, the standard error also partially measures the effect of certain response and enumeration errors, but it does not measure any systematic biases in the data. The chances are about 68 out of 100 that an estimate from the sample would differ from a complete census figure by less than the standard error. The chances are about 90 out of 100 that this difference would be less than 1.6 times the standard error, and the chances are about 95 out of 100 that the difference would be less than twice the standard error.

Comparability with Other Data

Data obtained from the CPS are not entirely comparable with data obtained from other governmental sources. This is due in large part to differences in survey processes. Therefore, caution should be used when comparing data in this report with data from other sources.

Standard Error Tables and Their Use

The figures presented in appendix tables 18 through 22 provide approximations of standard errors of various estimates shown in this report for data on total, white, and black and other hired farmworkers. To obtain standard errors for workers of Hispanic origin, multiply the standard errors in appendix tables 18 through 22 by 1.4.

Standard errors for values not shown in the standard errors tables may be approximated by interpolation. To derive standard errors that would be applicable to a wide variety of items and could be prepared at a moderate cost, a number of approximations were required. As a result, the tables of standard

errors (along with the factor for persons of Hispanic origin) provide an indication of the size of the standard errors rather than the precise standard error for any specific item.

Standard Errors of Estimated Numbers

Appendix table 18 shows standard errors, σ_x , for estimated numbers of hired farmworkers. Linear interpolation may be used to obtain standard errors for intermediate values not shown in the tables.

Alternately, standard errors can be calculated using the following formula (1), which was used to compute the tabular standard errors. Direct computation will give more accurate results than linear interpolation.

$$\sigma_{x} = c\sqrt{ax^{2} + bx}, \qquad (1)$$

where x is the actual size of the estimate (not rounded to thousands); a is 0.000382; b is 3,796; and c is 1.0 for total, white, or black and other persons, and 1.4 for persons of Hispanic origin. Formula (1) is used to calculate standard errors for estimated numbers of hired farmworkers only.

Standard Errors of Estimated Percentages

Appendix table 19 shows standard errors of estimated percentages of hired farmworkers. The reliability of an estimated percentage, computed by using sample data for both numerator and the denominator, depends on both the size of the percentage and the size of the total on which the percentage was based. Estimated percentages are relatively more reliable than the

Appendix table 18--Standard errors for estimated numbers of hired farmworkers $\underline{\mathbf{1}}/$

(68 chances out of 100)

Size of estimates	Standard error
Tho	ousands
10	6
25	10
50	14
100	20
250	31
500	45
1,000	65
2,500	109
3,000	122

^{1/} To obtain approximate standard errors for persons of Hispanic origin, multiply the above standard errors by 1.4.

Appendix table 19--Standard errors of percentages of hired farmworkers $\underline{1}/$ (68 chances out of 100)

Estimated	:			Ва	se of	perce	entag	e in th	ousands		
percentage	: :	25	: :	0	100	: 2	250	500	: 1,000	: 2,500	3,000
	:						Perc	ent			
1 or 99	:	3.9	2.		1.9		. 2	0.9	0.6	0.4	0.4
2 or 98	:	5.5	3.	-	2.7	-	. • 7	1.2	• 9	•5	• 5
5 or 95	:	8.5	6.	-	4.2	2	2.7	1.9	1.3	•8	.8
10 or 90	:	11.7	8.	3	5.8	3	3.7	2.6	1.8	1.2	1.1
15 or 85	:	13.9	9.	8	7.0	4	. 4	3.1	2.2	1.4	1.3
25 or 75	:	16.9	11.	9	8.4	5	.3	3.8	2.7	1.7	1.5
50	:	19.5	13.	8	9.7	6	. 2	4.4	3.1	1.9	1.8

 $\underline{1}/$ To obtain approximate standard errors for persons of Hispanic origin, multiply the above standard errors by 1.4.

corresponding estimates of the numerators of the percentages, particularly if the percentages are 50 percent or more. Linear interpolation may be used to obtain standard errors for intermediate values of the percentages and the base of the percentages shown in appendix table 19. Or standard errors, $\sigma(\mathbf{x},\mathbf{p}),$ can be calculated using formula (2). Direct computation will give more accurate results than linear interpolation.

$$\sigma_{(x,p)} = c \sqrt{\frac{b}{x} p (100 - p)},$$
 (2)

where x is the actual size (not rounded to thousands) of the subclass of the population which is the base of the percentage; p is the percentage (0 \leq p \leq 100); b is 3,796; and c is 1.0 for total, white, or black and other persons and 1.4 for persons of Hispanic origin. Formula (2) is used to calculate standard errors for estimated percentages of hired farmworkers only.

Standard Errors of Estimated Averages

Averages are subject to large sampling variability since the sample estimates of an average are affected by extreme values. Appendix table 20 shows standard errors of average numbers of days of hired farmwork; appendix table 21 shows standard errors of average annual earnings; and appendix table 22 shows standard errors of average daily earnings. Linear interpolation may be used to obtain standard errors for intermediate values not shown.

In the source and reliability statement for tables 20 and 21 in The Hired Farm Working Force of 1979, standard errors were provided based on a new variance estimation procedure. However,

Appendix table 20--Standard errors of average number of days of hired farmwork $\underline{1}/$ (68 chances out of 100)

Average number of days	;	Ва	ase of	average	е,	in t	hous	ands	3,	of h	ired fa	rmworkei	s
of hired farmwork per year per worker	50)	100	: 200	:	250	: 5	500	:	750	1,000	2,500	3,000
	:						Nu	ımbe	r				
10 25 50 75 100	: 3 : 10 : 16 : 19 : 20	. 4	1.0 3.1 7.2 11.6 13.6 14.2	0.8 2.5 6.4 9.2 10.7 10.8		0.7 2.2 5.7 8.2 9.6 9.7	1	0.5 1.5 4.0 5.7 6.8 7.2		0.4 1.4 3.6 4.7 5.6 5.9 5.6	0.4 1.3 3.4 4.5 5.0 4.8	.9 2.3 2.8 3.3 3.0	0.2 .7 2.0 2.5 2.9 2.8 2.1
150 200 250 300	: 19 : 15 : 11 : 7	. 5	14.0 11.0 8.0 5.0	10.6 7.8 5.6 3.4		9.5 7.0 5.0 3.0		5.0 3.5 2.0		4.1 2.9 1.6	3.0 1.3	2.0	1.7 .7 .4

Note: Appendix table 20 pertains to averages computed from distributions allowed to vary over the entire range of days worked. Standard errors for truncated distributions (for example, workers with fewer than 25 days of hired farmwork) are somewhat smaller.

Appendix table 21--Standard errors of average annual earnings from hired farmwork $\underline{1}/$ (68 chances out of 100)

Average earnings from hired farmwork per	:	В	ase of	average	, in th	ousands	, of hi	red farm	workers	
year per worker (Dollars)	: :	50	: 100	200	250	500	750	1,000	2,500	3,000
	:					Dollar	s			
100	:	17	12	9	8	6	5	4	3	2
250	:	58	41	29	26	19	18	16	11	10
500	:	118	84	59	53	41	40	35	23	21
750	:	178	126	89	80	64	62	54	36	33
1,000	:	219	155	110	98	85	79	68	45	41
2,000	:	314	223	158	141	132	110	96	64	58
3,000	:	331	235	167	149	138	114	99	66	60
4,000		340	241	171	153	141	115	100	67	61
5,000	:	344	244	173	155	142	115	100	67	61
6,000	:	346	245	174	156	142	115	100	67	61
9,000	:	345	245	174	156	142	115	100	67	61

^{1/} To obtain approximate standard errors for persons of Hispanic origin, multiply the above standard errors by 1.4.

 $[\]frac{1}{1}$ To obtain approximate standard errors for persons of Hispanic origin, multiply the above standard errors by 1.4.

Appendix table 22--Standard errors of average daily earnings from hired farmwork 1/

(68 chances out of 100)

Average earnings from hired farmwork per	:	В	ase	of a	vei	age,	in	thous	and	s, of	h	ired fa	arı	nworker	s
year per worker (Dollars)	:	50	:	100	:	250	:	500	:	750	:	1,000	:	2,500	3,000
	:	Dollars													
5.00	:	0.60		0.42		0.27		0.19		0.17		0.14		0.09	0.08
7.00	:	1.13		.81		•51		.36		.31		.26		.16	.15
9.00	:	1.46		1.04		.66		•50		•42		• 35		.22	• 20
11.00	:	1.52		1.08		.68		•53		.48		.43		.27	.25
13.00	:	1.54		1.09		.69		•55		•51		• 47		.30	• 27
15.00	:	1.57		1.11		.71		•56		•53		• 50		. 32	.29
17.00	:	1.59		1.13		.73		• 57		• 55		• 52		.33	.30
19.00	:	1.62		1.15		•75		•58		•56		•53		• 34	.31
21.00	:	1.64		1.16		.76		• 59		•57		• 54		•34	•31
25.00	:	1.66		1.18		.78		.61		•59		• 55		.35	.32
27.00	:	1.68		1.19		.80		.62		.60		. 56		.35	.32
30.00	:	1.69		1.20		.81		•63		•61		• 57		•36	.33

^{1/} To obtain approximate standard errors for persons of Hispanic origin, multiply the above standard errors by 1.4.

re-analysis of the 1979 standard errors via the variance a and b parameters showed that the individual curves were based on only a few items; thus, the reliability of these variances is questionable. Therefore, it is recommended that the parameters and tables in the 1981 report be used to calculate standard errors for 1979 data.

Illustration
of Use of
Standard
Error Tables

Appendix table 1 of this report shows 2,492,000 persons performing hired farmwork in 1981. Interpolation of data in appendix table 18 shows the standard error for an estimate of this size to be approximately 109,000. Thus, the chances are 68 out of 100 that the estimate would have been a figure differing from a complete census figure by less than 109,000. The chances are 95 out of 100 that the estimate would have differed from a complete census figure by less than 218,000 (twice the standard error).

Appendix table 1 also shows 39 percent of the farmworkers worked fewer than 25 days. Interpolation in appendix table 19 indicates the standard error for 39 percent of a base of 2,492,000 would be approximately 1.9 percent. Consequently, chances are 68 out of 100 that the estimated 39 percent would have differed from a complete census figure by less than 1.9 percent; the chances are 95 out of 100 that the estimate would

have differed from a complete census figure by less than 3.8 percent. For example, the 95-percent confidence interval would be from 35.2 to 42.8 percent.

Standard Error of a Difference For a difference between two sample estimates, the standard error is approximately equal to the square root of the sum of the squared standard errors of the estimates. The estimate can be of numbers, percentages, and averages. This method will represent the actual standard error quite accurately for the difference between two estimates of the same characteristic in two different areas, or for the difference between separate and uncorrelated characteristics in the same area. If, however, there is a high positive correlation between the two characteristics, the formula will overestimate the true standard error.

Illustration
of the Computation of the
Standard Error
of a Difference

Appendix table 1 shows that 16 percent of farmworkers worked 250 days and over. The apparent differences between the workers who worked fewer than 25 days (39 percent) and those who worked 250 days and over is 23 percentage points.

Appendix table 19 shows, by interpolation, the standard error for 16 percent on a base of 2,492,000 to be approximately 1.4 percent (σ). The standard error for 39 percent is 1.9 percent (σ). To get the standard error of the estimated difference, formula (3) for the standard error of a difference is used as follows:

$$\sigma_{(x-y)} = \sqrt{\frac{\sigma^2 + \sigma^2}{x + \sigma^2}}.$$
 (3)

Therefore, the standard error of the estimated difference is

$$2.36 = \sqrt{(1.4)^2 + (1.9)^2}.$$

This means the chances are 68 out of 100 that the estimated difference based on the sample would vary by 2.36 percentage points from the difference derived using complete census figures. Since the standard error of the estimated difference (2.36 percentage points) is less than the difference between the two estimates (23 percentage points), it can be concluded with 68 percent confidence that the percentage of hired farmworkers who worked fewer than 25 days in 1981 is greater than the percentage of workers who worked 250 days and over in 1981.

APPENDIX III: DEFINITIONS AND EXPLANA-TIONS Hired Farmworkers: Persons 14 years old and over in the civilian noninstitutional population of the United States at the time of the survey who did any farmwork for cash wages or salary at any time in the year, even if only for one day.

Farmwork for Cash Wages or Salary: 1) work done on any farm for cash wages or salary in connection with the production, harvesting, threshing, preparation for market, or delivery to market of agricultural products; 2) work done off the farm for

a farmer by farmworkers, such as trips to buy feed, seeds, or fertilizer, or to handle other matters involved in running the farm business; 3) repairs of farm buildings and machinery, for example, performed by a hired farmworker when done along with the type of work specified in (1) and (2) above; and 4) managing a farm enterprise for cash salary.

Not included as farmwork for cash wages or salary are: 1) work performed by farm operators on their own farms, or "exchange" work between farmers; 2) work done exclusively for "pay in kind;" 3) work done without pay on a family farm by a member of the farm operator's family (a small regular cash allowance is not considered as farm wages); 4) nonfarmwork performed on a farm, such as the building of a farm structure, drilling a well, hauling agricultural products to market by commercial truckers, or domestic service in the home of a farmer; and 5) custom work such as spraying, threshing, and combining when a person is paid a combined rate for the use of equipment and labor.

Work Classification: Casual workers--persons who worked fewer than 25 days at farmwork. Seasonal workers--persons who worked 25-149 days. Regular workers--persons who worked 150-249 days. Year-round workers--persons who worked 250 days or more.

Days of Hired Farmwork or Nonfarmwork:

Days on which any hired farmwork or nonfarmwork was reported. The work may have been for all or only part of a day.

Earnings from Farmwork and Nonfarmwork: Total cash wages or salary received for farmwork or for nonfarmwork. Estimates of earnings do not include the value of perquisites received in connection with farmwork nor the value of fringe benefits received in connection with nonfarmwork.

Primary Employment Status (termed "chief activity" in reports prior to 1976): Information on the primary employment status of hired farmworkers during the year was derived from the question, "What was doing most of 1981--working, keeping house, going to school, or something else?" If the initial response was "working," the kind of work the person was doing most of the year was determined. "Hired farmwork" was recorded if most of a person's work was farmwork for cash wages or salary. "Other farmwork" was recorded if most of a person's working time was spent operating a farm (as a tenant, owner, or sharecropper) or as an unpaid family farmworker. "Nonfarmwork" was recorded if most of a person's working time was spent operating a nonfarm business, in a profession, working without pay in a family nonfarm business, or working for pay (or pay in kind) in any nonfarm activity (such as manufacturing, trade, construction, and domestic services). For the person who did not report "working" as the primary activity, information was obtained on what he or she was doing most of the year. ing for work" (unemployed) was reported for a person who spent most of the time without employment but was actively looking for a job. "Keeping house" was reported for a person

who spent most of the time doing his or her own housework. "Going to school" was reported for a person who spent most of the time during the year going to school. The category "other" was reported for a person who spent most of the time at some activity other than those named above.

Major Crop or Livestock Activity: Information on crop or livestock activity was derived from the question, "What crops or livestock did work with most on the farm where he or she worked the greatest number of days in 1981?" Categories of response included grains, tobacco, cotton, other field crops, vegetables and melons, fruit or tree nuts, beef cattle, dairy, other livestock, nursery or tree crops, and other.

Migratory Status: Migratory workers are those who 1) left their home temporarily overnight to do hired farmwork in a different county within the same State or in a different State with the expectation of eventually returning home, or 2) had no usual place of residence, and did hired farmwork in two or more counties during the year. Nonmigratory workers are those who 1) did all their hired farmwork for the year in the same county in which they lived, 2) made a permanent move from one county to another during the year (even if they did hired farmwork in both counties), or 3) commuted daily across the county or State line to work and returned home each night.

Distance Traveled: Determined by asking the respondent, "What was the longest distance away from home that traveled while doing farmwork for cash wages?" Interviewers were instructed to record the mileage traveled by the workers from the time they left their homesite until the time they reached the place that was the longest distance away from their home. Distance traveled does not include miles to return to homesite.

Age: Based on the person's age at his or her last birthday.

Education Completed: Derived from the combination of answers to questions concerning the highest grade of school attended by the person and whether or not the grade was finished. Questions on educational attainment apply only to progress in graded public, private, and parochial elementary and high schools, whether day schools or night schools. Thus, schooling is that which may advance a person toward an elementary school certificate; a high school diploma; or a college, university, or professional school degree. Schooling in other schools was counted only if the credits obtained were regarded as transferable to a school in the regular school system.

Racial/Ethnic Group: Refers to division of the population into three mutually exclusive groups—whites, Hispanics, and blacks and others. "Ethnic origin" was determined for this report by asking respondents their origin or descent. The answer to this question may produce results somewhat different from results based on inferred ethnic identification using such characteristics as country of birth of the person or his or her parents, language spoken in the home, or surname. "Hispanic"

includes all Mexican, Mexicano, Puerto Rican, Cuban, Central or South American, or other Hispanic persons? "White" refers to white persons other than those of Hispanic origin. "Black and other" includes blacks and other groups such as Indians, Chinese, Japanese, and others not of Hispanic origin. For simplicity of presentation, these groups are termed whites, Hispanics, and blacks and others.

Family Income: As defined in this study, represents the combined total money income of the family head plus the income of all the head's relatives 14 years of age and over who were family members at the time of the survey. Family income includes wages and salaries, net income from business or farm, pensions, dividends, interest, rent, social security payments, and any other money income received by members of the family during the 12-month period prior to the interview.

Region: Hired farmworker data are presented in the report by two different regional aggregations of States, the four census regions and the 10 Standard Federal Regions.

States included in each of the four census regions are as follows: Northeast—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, Pennsylvania, and New Jersey; North Central—Ohio, Indiana, Illinois, Wisconsin, Michigan, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas; South—Maryland, Delaware, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, Oklahoma, and Texas; and West—Montana, Wyoming, Idaho, Colorado, New Mexico, Utah, Arizona, Nevada, Washington, Oregon, California, Hawaii, and Alaska.

The States included in each of the 10 Standard Federal Regions are as follows: Region I—Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont; Region II—New Jersey and New York; Region III—Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia; Region IV—Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee; Region V—Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin; Region VI—Arkansas, Louisiana, New Mexico, Oklahoma, and Texas; Region VII—Iowa, Kansas, Missouri, and Nebraska; Region VIII—Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming; Region IX—Arizona, California, Hawaii, and Nevada; Region X—Alaska, Idaho, Oregon, and Washington.

Residence: Based on the classification of the place in which the worker lived at the time of the survey. Farm—hired farm—workers were classified as living on farms (farm residents) if they lived on places from which at least \$1,000 worth of agricultural products were sold or normally would have been sold in the reporting year. Prior to 1981, the old farm definition was used, with farm residents classified as those living on a place of 10 or more acres of land from which at least \$50 worth of agricultural products were sold, or less than 10 acres if as

much as \$250 worth of agricultural products were sold from the place in the reported year. Nonfarm—workers who lived in urban places, rural towns or villages, or in the open country on places that did not meet the criteria for farm classification.

Northern Great Plains Coal Mining

What are the likely effects of expanded coal mining in Montana. Wyoming, and North Dakota on the small towns and communities there? Mining activity in the sparsely populated region has grown dramatically over the last decade-from less than 20 million tons of coal in 1970, to 100 million tons in 1978, with projections for 350 million tons per year by the mid-1980's

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To try to ascertain the effects of development on the region, the authors of this report used computerized simulations of various levels of coal activity to see if the communities could afford the increased level of government services and upgraded infrastructure required by new energy projects and the larger population attracted by those projects.

In the long run (10 years or more). most communities in the region will be able to pay for the services required by the new coal-related development, provided that they can tax the new developments. Without taxing authority (for instance, if the mine lies outside the taxing district of a locality), they will have problems.

Northern Great Plains Coal Mining: Regional Impacts (by Thomas F. Stinson, Lloyd D. Bender, and Stanley W. Voelker; AIB-452; July 1982; 36 pages; color illustrations; \$5; stock no. 001-000-04265-3).

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Mineral Tax Laws Reviewed

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assess the value of the minerals, for example).

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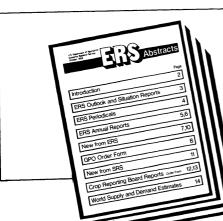
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